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Injury Experience in the Nonmetallic Mineral Industries (Except Stone and Coal), 1970-71



UNITED STATES DEPARTMENT OF THE INTERIOR
Mining Enforcement and Safety Administration
Washington, D. C. 20240

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Informational Report 1014

Injury Experience in the Nonmetallic Mineral Industries (Except Stone and Coal), 1970-71

By Staff, Branch of Recurring Reports
Health and Safety Analysis Center, Denver, Colo.



UNITED STATES DEPARTMENT OF THE INTERIOR
Rogers C. B. Morton, Secretary

Mining Enforcement and Safety Administration
James M. Day, Administrator

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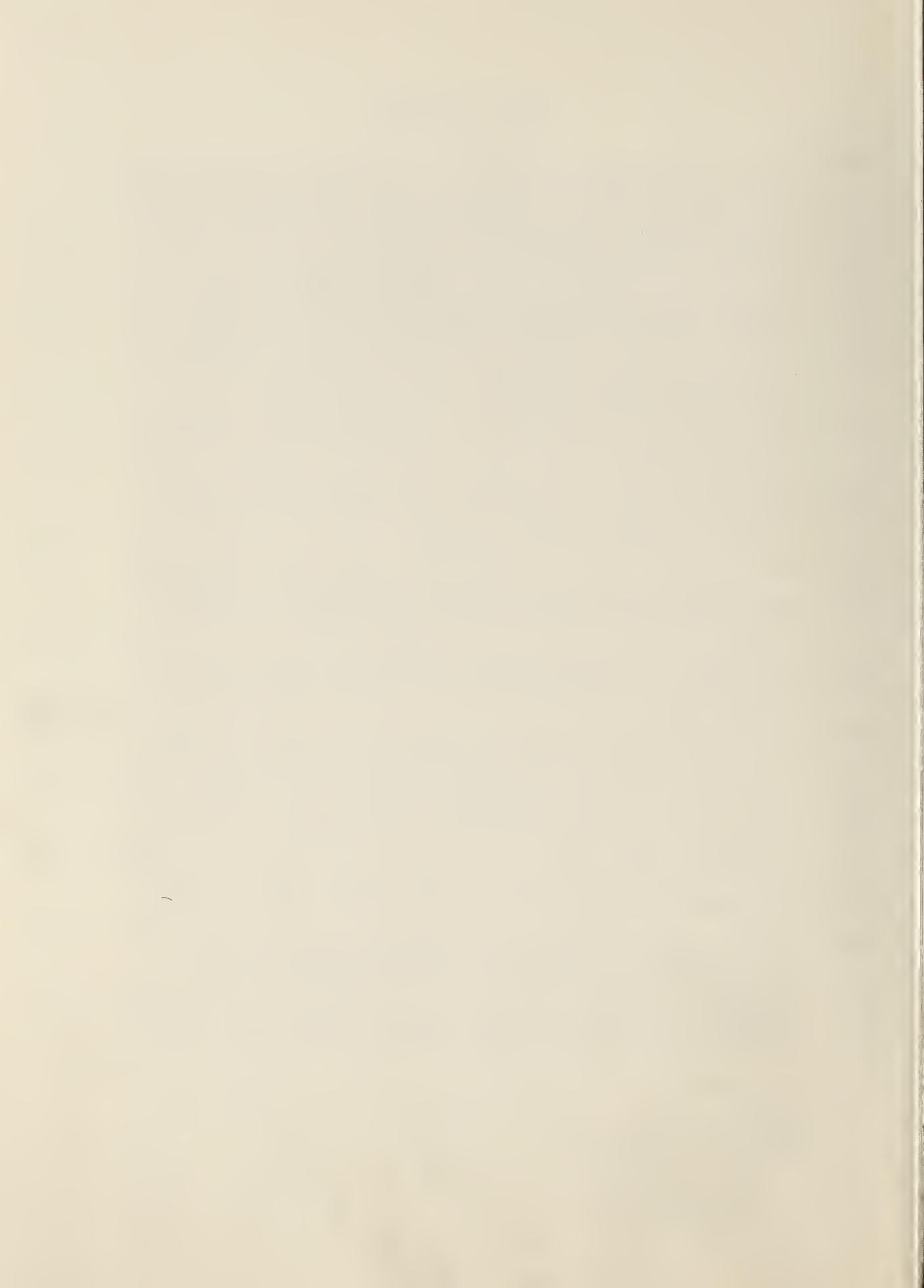
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INJURY EXPERIENCE IN THE NONMETALLIC MINERAL INDUSTRIES (EXCEPT STONE AND COAL), 1970-71

by

Staff, Branch of Recurring Reports
Health and Safety Analysis Center

ABSTRACT

This report reviews injury experience in the nonmetallic mineral industries (except stone and coal) for 1970-71. For 1970 there are 22 tables and for 1971 there are 21 tables which summarize disabling work injuries by department, source of injury, extent of disability, part of body injured, and nature of injury. Correlative information on employment, worktime, and operating activity also is presented.

INTRODUCTION

Under provisions of Section 13, Public Law 89-577 (Federal Metal and Nonmetallic Mine Safety Act), the Bureau of Mines collected injury and employment data for nonmetal mines and mills by a mandatory reporting system in 1970 and 1971. This Act required the operators of mines and/or mills subject to the Act to submit reports of accidents, injuries, and occupational diseases, and related data.

Mine and mill operators classified work injuries by department, source of injury, extent of disability, part of body injured, and nature of injury, as requested on the annual employment canvass form. From these data, personnel of the Health and Safety Analysis Center of the Mining Enforcement and Safety Administration (MESA) determined the appropriate injury classification and tabulated the injuries by common factors. The relative prevalence of injuries to the different parts of the body, the nature of the injury, and the relative severity of injuries are among summarized factors. Data pertaining to injury and employment statistics are contained in appendix A for 1970 and in appendix B for 1971. Appendix C is a sample of the canvass form used to collect these data.

ACKNOWLEDGMENTS

MESA acknowledges the cooperation of the operators of the nonmetal mines and mills who submitted data on injuries and related employment. This cooperation makes possible the compilation of industrywide information on injury experience to aid in the promotion of safe working habits and conditions.

SCOPE OF STATISTICS

The statistical data in this report cover the work experience of all personnel engaged in exploration, development, production, maintenance, repair, and force-account construction work, including supervisory and technical personnel and working partners. This report contains information on the sulfur industry for 1970 only, owing to the transfer to the Department of Labor of data-collection responsibilities for information on operations which produce minerals in liquid form from wells or by solar evaporation. Such operations include those producing sulfur by the Frasch process, salt by solution mining or solar evaporation, sodium and potassium compounds from dry lake beds, and others. The aforementioned transfer has affected comparability of the data for 1971 with those for previous years in varying degrees on the following subgroups of nonmetal industries: Potash, salt, sulfur, and miscellaneous. Comparability of the 1971 data on the miscellaneous nonmetal group was affected further by the inclusion of the injury and worktime data on the peat industry for the first time. This inclusion resulted from an administrative action which placed peat operations under the Federal Metal and Nonmetallic Mine Safety Act. Information concerning onsite officeworkers at nonmetal mines and mills appears separately and is presented only as mentioned specifically in table titles.

The compiled information is based on reports covering an annual average of 2,010 nonmetal mines and 886 mills in operation during all or part of 1970-71. Most of the information on nonmetal mines and mills was received directly from the operators. However, to obtain complete coverage of the industry, it was necessary to estimate injury and employment data for certain operations from information available from other sources.

The terminology used throughout this report is that generally used by the mineral-extractive industries and by the Bureau of Mines and MESA. The recording and measuring of work injury experience follows the U.S.A. Standard Method.¹ The classification and extent of industries is in close general agreement with the Standard Industrial Classification.²

DEFINITION OF TERMS

Key terms used in this publication series are defined or described as follows:

Disabling work injury.--Any injury suffered by a person that arises out of and in the course of his employment that results in death, permanent total disability, permanent partial disability, or temporary total disability.

¹United States of America Standards Institute (formerly the American Standards Association, Inc.). U.S.A. Standard Method of Recording and Measuring Work Injury Experience. Bull. Z16.1--1967, pp. 7-15.

²Executive Office of the President, Bureau of the Budget. Standard Industrial Classification Manual. 1957 revision.

Fatality.--Any death resulting from a disabling work injury, regardless of the time intervening between injury and death.

Permanent total disability.--Any disabling work injury other than death that permanently and totally incapacitates an employee from following any gainful occupation, or that results in the loss, or the complete loss of use, of both or any two: Hands, arms, legs, feet, or eyes.

Permanent partial disability.--Any disabling work injury other than death or permanent total disability that results in the loss, or the complete loss of use, of any member or part of a member of the body, or any permanent impairment of functions of the body or part thereof, regardless of any preexisting disability of the injured member or impaired body function.

Temporary total disability.--Any disabling work injury that does not result in death or permanent impairment, but which renders the injured person unable to perform a regularly established job that is open and available to him, during the entire time interval corresponding to the hours of his regular shift on any one or more days (including Sundays, days off, or plant shutdown) subsequent to the date of injury.

Lost time injury.--Same as disabling work injury.

Disabling injury-frequency rate.--The number of disabling work injuries per million man-hours of exposure. It is calculated by multiplying the total number of injuries by one million and dividing the product by the total man-hours of worktime.

Disabling injury-severity rate.--The number of days lost or charged from disabling work injuries per million man-hours of exposure. It is calculated by multiplying the total number of days lost or charged by one million and dividing the product by the total man-hours of worktime.

Average severity.--The average number of days lost or charged per disabling injury. It is calculated from the total number of days lost or charged divided by the total number of disabling injuries.

Days lost.--The number of full calendar days the injured employee was unable to work as the result of a temporary total disability.

Days charged.--All fatalities and permanent total disabilities have a standard time-loss charge of 6,000 days. Injuries resulting in permanent partial disability are assigned a time-loss charge depending upon the particular injury as specified by the U.S.A. Standard Table of Scheduled Charges.³

Men employed.--Average number of men at work each day the mine or plant was active for production or development. As absenteeism and labor turnover are considered, this number is lower than the number available for work as measured by a count of names on the payroll.

³Pp. 10-11 of work cited in footnote 1.

Underground mine.--An underground mining establishment separated into an underground department and a surface department which includes the associated supply, maintenance, repair, and yard facilities on the surface.

Open pit.--An open pit mining establishment including the pit and associated surface facilities.

Other surface mining.--Placer, dredging, hydraulicking, leaching, wells and brines, Frasch sulfur, and exploration establishments as well as stock-piles, mine dumps, and old tailings dumps worked for recovery of ore.

Mill.--An establishment processing ores and minerals by washing, screening, crushing, grinding, concentrating, or other means. The mill may be in conjunction with a mining operation or may be operated independently as a custom mill.

Accident-cause classification.--The cause classification used in this report has been developed by the Bureau of Mines through many years of analyzing descriptions of accidents which resulted in injuries at mineral extractive and processing operations. The classification descriptions are as follows:

Falls of roof or back.--Falls of ore or rock from their in-place location in the mine roof, back, overhead, or brow. Excludes falls of rock or ore caused by equipment knocking out support or falls from pressure bumps or bursts.

Falls of face or side.--Any fall of ore, rock, or waste from their in-place location in the face, wall, breast, side, rib, or pillar in underground workings and from the side, face, or wall in open pits. Excludes falls caused by equipment knocking out support or falls from pressure bumps or bursts.

Pressure bumps or bursts.--Falling or flying roof, back, face, or side material caused by pressure bumps or bursts.

Inrush of water or material.--Includes inrushes of water or unconsolidated material caused by mining into or too close to flooded old workings, natural subterranean cavities, etc., or unconsolidated sediments such as sand.

Other falling materials or objects.--Rolling, shifting, sliding, or falling materials or objects not being handled or disturbed by the injured worker. Includes ore or rock already broken from its in-place position.

Slips or falls of persons.--Slips or falls on the same level and from an elevation are grouped separately. Slips or falls in or from haulage equipment that resulted from an accident on haulage, from the motion of haulage equipment, or while getting on or off haulage equipment are excluded. Slips or falls into moving or operating machinery or into electrically generated equipment also are excluded.

Handling materials.--Injuries occurring while moving, lifting, loading, carrying, or installing ore, rock, supplies, or materials; and injuries from flying particles from materials being handled or moved.

Handtools.--Accidents from tools in hands of injured worker or of fellow worker, except power-driven tools. Includes flying pieces from tools being used.

Stepping or kneeling on sharp or loose objects.--Stepping or kneeling on sharp or loose objects, slips or falls from stepping on loose objects, and cases of bursitis or "miner's knee" resulting from working on hands and/or knees.

Striking or bumping against objects.--Cases of walking or bumping into stationary objects. Excludes cases of striking or bumping in the course of servicing and repairing equipment, handling materials, using handtools, operating machinery or haulage equipment, etc. Excludes cases of striking or bumping moving or operating machinery or electrically generated equipment.

Haulage.--Haulage accidents are divided into the following six groups: (1) mine cages, cars, or motors; (2) shuttle cars, transloaders, and small mobile trucks; (3) railroad cars and locomotives; (4) water transportation; (5) automobiles, gasoline or diesel trucks, tractors, etc.; and (6) miscellaneous equipment (ropes, animals, belts, etc.). Included in the haulage category are falls of roof, back, or face from equipment knocking out supports; slips or falls of persons resulting from haulage accidents, from the motion of the equipment, or while getting on or off equipment; and flying particles set in motion by haulage equipment or draft therefrom.

Explosions of gas or dust.--Explosions of gas or dust in the mine environment.

Explosives and breaking agents.--Cases in which the detonation, fumes, flying fragments, or improper use of the explosive or breaking agent, fuses, caps, or detonators was the cause of injury.

Electricity.--Cases resulting from contact with electric current or from arcs or flashes.

Machinery.--Accidents while operating machines are separated from those while moving or tramping a whole machine, except continuous mining machines. Injuries occurring while moving a repair part of a machine are classed under "handling materials." Included in the machinery classification are falls of roof or face caused by machinery knocking out support, setting-up or servicing machinery, and flying particles set in motion by machinery. Excluded from the classification are accidents occurring in the course of repairing machines, unless the accident resulted from in-motion machinery.

Suffocation.--Divided into suffocation (1) from naturally occurring gases from strata or processing gases, or from oxygen-depleted atmospheres, and (2) from foreign gases such as from oil or gasoline fumes, from gases and

smoke drawn underground from a surface fire, or from gas wells. Excludes gases from mine fires, explosions, and explosives use.

Mine fires and suffocation from fires.--Mine fire accidents are divided into (1) mine fires in which mineral or timber is burning, and (2) other fires in which equipment or material other than mineral or timber is burning.

Miscellaneous causes.--Includes flying particles from draft or wind; gas or burns from carbide; gas, burns, or flying materials or flashes from acetylene and electric welding and cutting; irritations and burns from battery fluid or other acids; burns from controlled wood, oil, or coal fires, steam, hot grease, oil, etc.; and all other accidents not elsewhere classified.

Occupational pneumoconiosis.--A chronic dust disease of the lungs, such as silicosis, caused by prolonged inhalation of occupational dusts, such as coal.

HISTORICAL INJURY EXPERIENCE IN THE NONMETALLIC MINERAL INDUSTRY

Statistical data on injuries and related employment at nonmetal mines first became available when the Bureau of Mines received reports from operating companies in 1911. The nonmetal mine data were published under the classification of miscellaneous mineral mines for the period 1911 to 1914 inclusive. In 1915, the classification was changed to nonmetallic mineral mines. From 1911 to 1914 inclusive, the Bureau's classification of nonfatal injuries covered two groups: "Serious" injuries, disabling a workman for more than 20 days; and "slight" injuries, causing disability not exceeding 20 days but longer than the remainder of the day of injury. From 1915 to 1929, a "serious" injury, as the term was used in Bureau reports, signified a temporary injury disabling an employee for more than 14 days. Beginning in 1930, temporary total injuries have been included in a single group, each injury causing disability for more than the remainder of the day on which the injury occurred. Nonfatal injuries are classified by severity of injuries as follows: Permanent total, permanent partial, and temporary total.

From 1911 through 1916, injury-frequency rates were indicated by showing the number of injuries per thousand men employed. Beginning in 1917 and continuing through 1930, a method was used whereby the total number of employees was converted to an equivalent number of 300-day workers, which was used to determine the injury rates per thousand 300-day workers.

Beginning in 1931, the Bureau of Mines collected and used the number of man-hours of exposure as the basis for determining injury-frequency rates. The injury-frequency rate per million man-hours worked constitutes an index which can be used for direct comparison of injury experience between different years, different mines, and different industries. The use of this index eliminates such effects as variations in the number of men working at different mines, the number of working days per year, and the number of working hours per day. Most of the operating companies report the number of man-hours worked, and that figure is generally accepted by the Bureau as the best record obtainable. In some instances, however, it has been necessary to approximate

the number of days on which the employees worked, and then multiply the product by the number of hours worked per day (length of working shift).

Published data for 1942 to 1944 inclusive were revised to include fluorspar operations with nonmetal mines. The clay industry, which includes all clay and shale operations, was included with the data on nonmetal mines beginning with 1955. Clay mills at the minesite were first included in the data for 1956.

In 1956 data on injury and employment experience in the nonmetal industries were separated from the former series of reports, "Injury Experience in the Metal and Nonmetal Industries," and were published in a new series, "Injury Experience in the Nonmetal Industries." Data on injury and employment experience at nonmetal mills were first compiled in 1956. At this time the Bureau of Mines requested the operators of all nonmetal mines to furnish a brief description of each disabling work injury and to report the number of days of disability experienced for each temporary total injury. With these data, injury-severity rates have been calculated for the nonmetal mining and milling industry in the United States beginning with 1956. Table 1 lists the scale of time charges for weighting deaths, permanent total disabilities, and permanent partial disabilities for computing severity of injuries.

Beginning in 1962, the activity classifications "Ore-dressing" and "Auxiliary works" were dropped, and the combined data on these activities were designated "Mills" and associated with the nonmetal mine data.

Injury and employment data for the nonmetallic mineral industries were collected on a voluntary basis from 1911 through 1961, and by a mandatory reporting system in 1962 under provisions of Public Law 87-300. During 1963-65 reporting was again on a voluntary basis while the various aspects of metal and nonmetal mine safety were studied. In 1966 reporting of injuries and employment data became mandatory under the provisions of Section 13, Public Law 89-577.

Table 1 gives the scale of time charges for injuries. Table 2 gives the salient statistics for 1967-71, and table 3 presents the injury experience and employment data on nonmetal mines and mills in the United States for 1931-71.

GENERAL INJURY EXPERIENCE, 1970-71

During 1970, the overall injury experience, excluding officeworkers, at 2,878 nonmetal mines and mills was 28 fatal and 2,394 nonfatal disabling work injuries. These injuries resulted in a combined fatal and nonfatal injury-frequency rate of 25.57 per million man-hours of exposure, consisting of a fatality rate of 0.30 and a nonfatal injury rate of 25.28. The combined injury-severity rate of 2,917 consisted of a fatal injury rate of 1,774 and a nonfatal injury rate of 1,143. The average severity of all injuries at nonmetal mines and mills was 114 days lost per disabling work injury. An average of 42,461 men worked daily in the nonmetallic mineral industry during 1970, accumulating approximately 94.7 million man-hours during the year.

During 1971, the overall injury experience, excluding officeworkers, at 2,912 nonmetal mines and mills was 24 fatal and 2,308 nonfatal disabling work injuries. These injuries resulted in a combined fatal and nonfatal injury-frequency rate of 27.67 per million man-hours of exposure, consisting of a fatal injury rate of 0.28 and a nonfatal injury rate of 27.39. The combined injury-severity rate of 2,989 consisted of a fatal injury rate of 1,709 and a nonfatal injury rate of 1,281. The average severity of all injuries at nonmetal mines and mills was 108 days lost per disabling work injury. An average of 38,389 men worked daily in the nonmetallic mineral industry during 1971, accumulating approximately 84.3 million man-hours during the year.

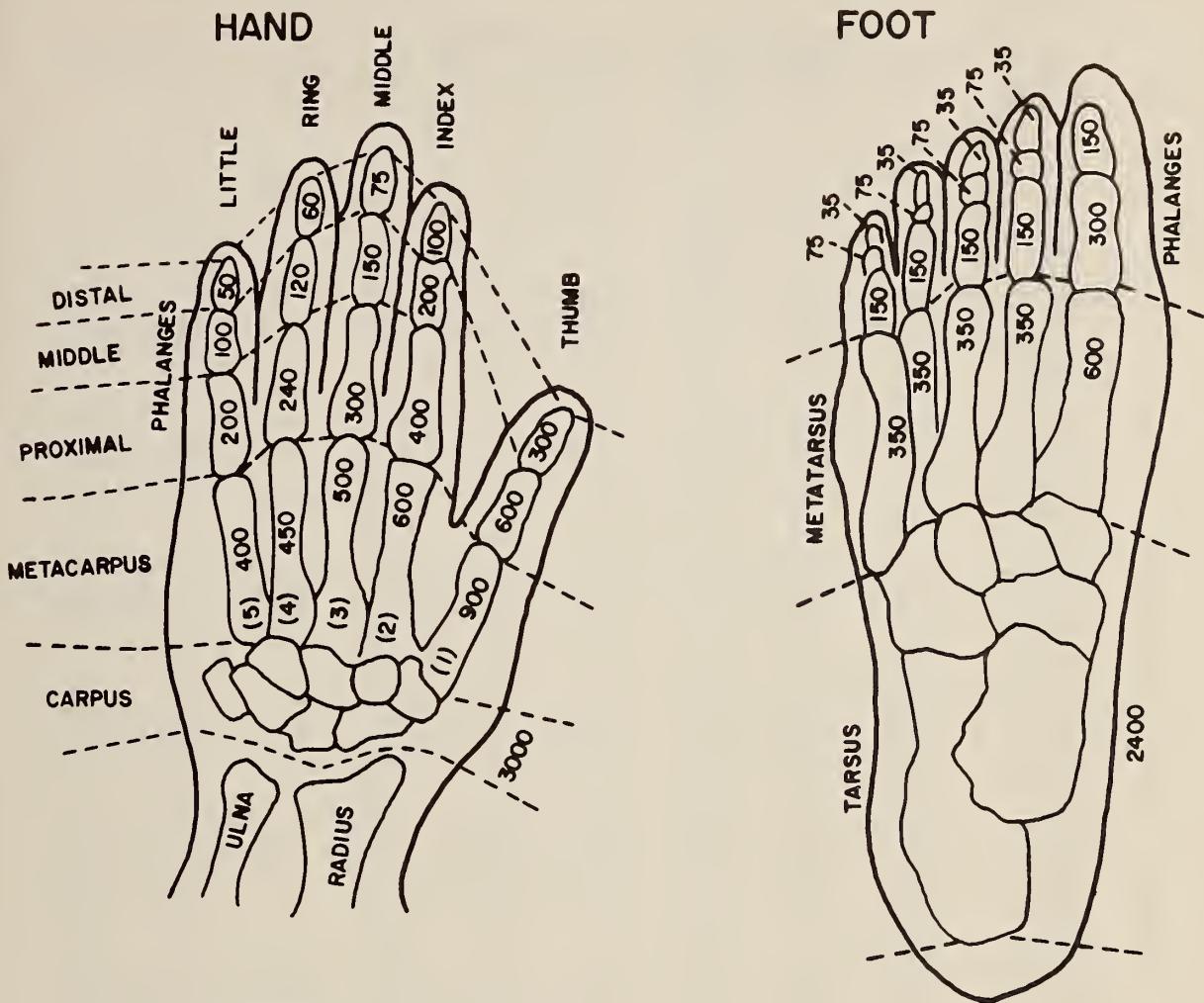
TABLE 1. - Scale of time charges¹ for weighting deaths, permanent total disabilities, and permanent partial disabilities for computing severity of injuries

| Injury | Time charge (days) |
|---|-----------------------|
| Death..... | 6,000 |
| Permanant total disability..... | 6,000 |
| Dismemberment ² or total loss of use: | |
| Arm above elbow..... | 4,500 |
| Arm at or below elbow and above wrist..... | 3,600 |
| Hand at wrist..... | 3,000 |
| Thumb..... | (³) |
| Finger..... | (³) |
| Leg above knee..... | 4,500 |
| Leg at or below knee and above ankle..... | 3,000 |
| Foot at ankle..... | 2,400 |
| Great toe..... | (³) |
| Other toes..... | (³) |
| Loss of sight: | |
| One eye (whether or not there is sight in the other eye)..... | 1,800 |
| Both eyes (in one accident)..... | 6,000 |
| Complete industrial loss of hearing: | |
| One ear (whether or not there is hearing in the other ear)..... | 600 |
| Both ears (in one accident)..... | 3,000 |
| Unrepaired hernia..... | 50 |

¹United States of America Standards Institute (formerly the American Standards Association, Inc.). U.S.A. Standard Method of Recording and Measuring Work Injury Experience. Bull. Z16.1--1967, 28 pp.

²Dismemberment means severance of any part of the bone.

³See figure 1 for scheduled charges for hand and foot.



NOTE :

Numbers shown on diagram are charges in days lost for loss of all or part of bone.

For additional information on use of the chart see 2.3.1.1 through 2.3.1.5 Bulletin Z.16.1-1967 USA Standard Method of Recording and Measuring Work Injury Experience

FIGURE 1. - Chart of scheduled charges for loss or loss of use involving hand or foot.

TABLE 2. - Salient statistics on injuries, injury rates, and worktime data on nonmetal mines and mills in the United States, 1967-71

| | Excluding officeworkers | | | | | Including officeworkers | | | | |
|--|-------------------------|------------|------------|------------|------------|-------------------------|-------------|-------------|------------|------------|
| | 1967 | 1968 | 1969 | 1970 | 1971 | 1967 | 1968 | 1969 | 1970 | 1971 |
| Injuries: | | | | | | | | | | |
| Fatal----- | 30 | 39 | 27 | 28 | 24 | 30 | 39 | 27 | 28 | 24 |
| Nonfatal: | | | | | | | | | | |
| Permanent total----- | - | 2 | 2 | 4 | - | 2 | 2 | 2 | 2 | 4 |
| Permanent partial----- | 68 | 70 | 72 | 65 | 69 | 70 | 72 | 91 | 91 | 65 |
| Temporary total----- | 2,483 | 2,400 | 2,287 | 2,301 | 2,239 | 2,498 | 2,403 | 2,295 | 2,313 | 2,247 |
| Total nonfatal----- | 2,551 | 2,472 | 2,361 | 2,394 | 2,308 | 2,567 | 2,475 | 2,369 | 2,406 | 2,316 |
| Grand total----- | 2,581 | 2,511 | 2,388 | 2,422 | 2,332 | 2,597 | 2,514 | 2,396 | 2,434 | 2,340 |
| Injury rates: | | | | | | | | | | |
| Frequency per million man-hours: | | | | | | | | | | |
| Fatal----- | 0.28 | 0.39 | 0.27 | 0.30 | 0.28 | 0.26 | 0.36 | 0.25 | 0.27 | 0.26 |
| Nonfatal----- | 23.75 | 24.87 | 23.90 | 25.28 | 27.39 | 21.98 | 22.93 | 22.06 | 23.29 | 25.41 |
| Total fatal and nonfatal----- | 24.03 | 25.26 | 24.17 | 25.57 | 27.67 | 22.24 | 23.29 | 22.31 | 23.56 | 25.67 |
| Severity per million man-hours: | | | | | | | | | | |
| Fatal----- | 1,676 | 2,354 | 1,640 | 1,774 | 1,709 | 1,541 | 2,168 | 1,508 | 1,626 | 1,580 |
| Nonfatal----- | 890 | 980 | 948 | 1,143 | 1,281 | 823 | 903 | 873 | 1,050 | 1,185 |
| Total fatal and nonfatal----- | 2,566 | 3,334 | 2,587 | 2,917 | 2,989 | 2,364 | 3,070 | 2,381 | 2,676 | 2,764 |
| Average severity (days lost per injury): | | | | | | | | | | |
| Permanent partial----- | 681 | 530 | 515 | 534 | 584 | 673 | 530 | 515 | 534 | 584 |
| Temporary total----- | 20 | 20 | 19 | 21 | 21 | 20 | 20 | 19 | 21 | 20 |
| All injuries----- | 107 | 132 | 107 | 114 | 108 | 106 | 132 | 107 | 114 | 108 |
| Average men working daily----- | 4,9,447 | 45,576 | 44,602 | 42,461 | 38,389 | 53,829 | 49,632 | 48,643 | 515 | 534 |
| Average days active----- | 13,329,735 | 12,282,051 | 12,254,275 | 11,762,277 | 10,452,733 | 14,505,114 | 13,350,622 | 13,331,606 | 53 | 538 |
| Man-days worked----- | 107,399,738 | 99,413,910 | 98,798,717 | 94,706,700 | 84,277,963 | 116,781,682 | 107,955,156 | 107,392,530 | 12,839,777 | 41,750 |
| Average hours per man per day----- | 8.06 | 8.09 | 8.06 | 8.05 | 8.06 | 8.05 | 8.09 | 8.06 | 276 | 271 |
| Average hours per man per year----- | 2,172 | 2,181 | 2,215 | 2,230 | 2,000 | 2,169 | 2,175 | 2,208 | 11,313,291 | 11,313,291 |
| Active mines----- | 2,176 | 2,338 | 2,210 | 2,019 | 863 | 859 | 2,176 | 2,210 | 2,019 | 2,183 |
| Active mills----- | 933 | 887 | 887 | 859 | 912 | 933 | 887 | 863 | 859 | 2,000 |

TABLE 3. - Injury experience and worktime data at nonmetal mines and mills
in the United States, 1931-71 1/

11

| Year | Injuries | | Frequency rates per million man-hours | | Average men working daily | Average days active | Man-days worked (thousands) | Man-hours worked (thousands) |
|---------------|----------|----------|---------------------------------------|----------|---------------------------|---------------------|-----------------------------|------------------------------|
| | Fatal | Nonfatal | Fatal | Nonfatal | | | | |
| At Mines | | | | | | | | |
| 1931----- | 11 | 841 | 0.61 | 46.88 | 8,949 | 227 | 2,029 | 17,941 |
| 1932----- | 7 | 528 | .59 | 44.65 | 6,686 | 201 | 1,347 | 11,825 |
| 1933----- | 8 | 745 | .57 | 52.71 | 7,678 | 225 | 1,729 | 14,134 |
| 1934----- | 8 | 787 | .53 | 51.82 | 8,234 | 236 | 1,947 | 15,187 |
| 1935----- | 7 | 813 | .43 | 50.28 | 8,339 | 250 | 2,086 | 16,168 |
| 1936----- | 4 | 1,044 | .19 | 48.43 | 10,380 | 259 | 2,689 | 21,556 |
| 1937----- | 13 | 987 | .63 | 48.06 | 10,017 | 256 | 2,561 | 20,536 |
| 1938----- | 6 | 726 | .34 | 40.72 | 9,526 | 236 | 2,251 | 17,827 |
| 1939----- | 10 | 719 | .58 | 41.61 | 9,630 | 228 | 2,196 | 17,281 |
| 1940----- | 14 | 826 | .74 | 43.50 | 9,780 | 247 | 2,416 | 18,988 |
| 1941----- | 17 | 1,182 | .73 | 50.89 | 11,088 | 263 | 2,920 | 23,225 |
| 1942 2/ ----- | 22 | 1,537 | .78 | 54.71 | 12,677 | 274 | 3,473 | 28,093 |
| 1943----- | 25 | 1,471 | .89 | 52.54 | 12,713 | 269 | 3,426 | 27,999 |
| 1944----- | 17 | 1,283 | .66 | 49.81 | 11,261 | 282 | 3,173 | 25,760 |
| 1945----- | 16 | 1,145 | .65 | 46.52 | 10,371 | 291 | 3,016 | 24,613 |
| 1946----- | 26 | 1,369 | .97 | 50.94 | 11,312 | 291 | 3,297 | 26,877 |
| 1947----- | 12 | 1,308 | .42 | 45.40 | 12,176 | 292 | 3,555 | 28,809 |
| 1948----- | 15 | 1,176 | .54 | 42.33 | 11,950 | 287 | 3,432 | 27,784 |
| 1949----- | 10 | 1,125 | .37 | 41.75 | 12,077 | 277 | 3,340 | 26,948 |
| 1950----- | 19 | 1,238 | .67 | 43.51 | 11,977 | 293 | 3,512 | 28,456 |
| 1951----- | 17 | 1,351 | .56 | 44.84 | 12,500 | 298 | 3,729 | 30,130 |
| 1952----- | 14 | 1,171 | .48 | 40.44 | 12,447 | 288 | 3,588 | 28,954 |
| 1953----- | 22 | 1,419 | .72 | 46.54 | 12,765 | 292 | 3,727 | 30,488 |
| 1954----- | 9 | 956 | .30 | 32.34 | 12,810 | 284 | 3,638 | 29,564 |
| 1955 3/ ----- | 19 | 1,156 | .61 | 37.18 | 14,504 | 264 | 3,836 | 31,093 |
| 1956----- | 17 | 1,036 | .50 | 30.50 | 15,595 | 268 | 4,178 | 33,963 |
| 1957----- | 9 | 1,112 | .24 | 29.36 | 17,921 | 262 | 4,691 | 37,877 |
| 1958----- | 15 | 955 | .43 | 27.56 | 17,820 | 239 | 4,258 | 34,648 |
| 1959----- | 11 | 1,072 | .30 | 29.50 | 18,765 | 239 | 4,488 | 36,334 |
| 1960----- | 19 | 1,056 | .52 | 28.69 | 18,653 | 242 | 4,515 | 36,805 |
| 1961----- | 15 | 861 | .42 | 24.24 | 18,281 | 238 | 4,347 | 35,517 |
| 1962----- | 14 | 944 | .43 | 29.06 | 16,917 | 235 | 3,979 | 32,484 |
| 1963----- | 31 | 857 | .95 | 26.34 | 15,570 | 256 | 3,988 | 32,539 |
| 1964----- | 18 | 906 | .50 | 25.18 | 17,087 | 259 | 4,420 | 35,977 |
| 1965----- | 21 | 989 | .56 | 26.19 | 17,214 | 268 | 4,612 | 37,760 |
| 1966----- | 16 | 1,058 | .39 | 25.80 | 18,727 | 268 | 5,027 | 41,003 |
| 1967----- | 17 | 1,026 | .44 | 26.61 | 18,020 | 264 | 4,765 | 38,550 |
| 1968----- | 36 | 953 | 1.01 | 26.74 | 16,630 | 262 | 4,352 | 35,633 |
| 1969----- | 17 | 880 | .48 | 25.04 | 16,587 | 262 | 4,341 | 35,147 |
| 1970----- | 18 | 799 | .56 | 24.65 | 15,336 | 261 | 4,010 | 32,414 |
| 1971----- | 15 | 741 | .53 | 25.95 | 14,069 | 251 | 3,526 | 28,555 |
| At Mills | | | | | | | | |
| 1955----- | 3 | 451 | .15 | 22.73 | 8,723 | 283 | 2,467 | 19,843 |
| 1956 4/ ----- | 7 | 1,157 | .17 | 28.44 | 17,585 | 288 | 5,056 | 40,675 |
| 1957----- | 10 | 1,512 | .17 | 25.30 | 27,081 | 274 | 7,415 | 59,765 |
| 1958----- | 9 | 1,490 | .13 | 20.94 | 32,401 | 272 | 8,809 | 71,161 |
| 1959----- | 11 | 2,156 | .12 | 23.77 | 40,800 | 274 | 11,195 | 90,706 |
| 1960----- | 13 | 1,794 | .15 | 20.77 | 39,568 | 270 | 10,679 | 86,386 |
| 1961----- | 6 | 1,680 | .07 | 20.02 | 39,031 | 268 | 10,471 | 83,925 |
| 1962----- | 9 | 1,383 | .12 | 18.53 | 34,900 | 261 | 9,112 | 74,621 |
| 1963----- | 2 | 1,476 | .03 | 19.44 | 33,732 | 280 | 9,452 | 75,944 |
| 1964----- | 6 | 1,580 | .08 | 22.11 | 31,967 | 279 | 8,914 | 71,461 |
| 1965----- | 10 | 1,483 | .14 | 20.89 | 31,215 | 283 | 8,819 | 70,975 |
| 1966----- | 11 | 1,564 | .15 | 21.48 | 32,001 | 283 | 9,052 | 72,810 |
| 1967----- | 13 | 1,525 | .19 | 22.15 | 31,427 | 273 | 8,565 | 68,850 |
| 1968----- | 3 | 1,519 | .05 | 23.82 | 28,946 | 274 | 7,930 | 63,781 |
| 1969----- | 10 | 1,481 | .16 | 23.27 | 28,015 | 282 | 7,914 | 63,651 |
| 1970----- | 10 | 1,595 | .16 | 25.60 | 27,125 | 286 | 7,752 | 62,293 |
| 1971----- | 9 | 1,567 | .16 | 28.12 | 24,320 | 285 | 6,926 | 55,723 |

1/ Mill data, except for clay, first compiled for 1955.

2/ Fluorspar for Illinois and Kentucky previously included with lead-zinc for Mississippi Valley States, now included with nonmetal mines.

3/ Includes clay mine data not compiled before 1955.

4/ Clay mill data included beginning with 1956.

APPENDIX A.—1970 DATA

TABLE A-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States, by general work location and detailed cause, 1970

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | | | | | | | | |
|---|----------|-----------|----|-----------------|--------------|-------------------|------------------|--------------|-------|--|--|--|--|--|--|--|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | | | | | | | | |
| | | Permanent | | Temporary total | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | |
| Partial | | | | | | | | | | | | | | | | |
| UNDERGROUND MINES | | | | | | | | | | | | | | | | |
| Underground: | | | | | | | | | | | | | | | | |
| Falls of roof or back: | | | | | | | | | | | | | | | | |
| While mining----- | - | - | - | 32 | 32 | 32 | - | 20 | 20 | | | | | | | |
| While loading----- | 4 | - | - | 2 | 2 | 6 | - | 96 | 4,032 | | | | | | | |
| While testing or barring down back----- | 1 | - | - | 6 | 6 | 7 | - | 66 | 914 | | | | | | | |
| All other----- | 1 | - | - | 1 | 1 | 2 | - | 5 | 3,002 | | | | | | | |
| Falls of face or side: | | | | | | | | | | | | | | | | |
| While mining----- | - | - | - | 3 | 3 | 3 | - | 67 | 67 | | | | | | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 66 | 66 | | | | | | | |
| Sliding or falling material or objects: | | | | | | | | | | | | | | | | |
| From car, bin, platform, or chute----- | - | - | 1 | 6 | 7 | 7 | 90 | 8 | 20 | | | | | | | |
| From stockpile, dump, or gob----- | - | - | - | 2 | 2 | 2 | - | 28 | 28 | | | | | | | |
| All other----- | - | - | - | 1 | 1 | 1 | - | 35 | 35 | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | | | | | | |
| On same level: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 14 | 14 | 14 | - | 39 | 39 | | | | | | | |
| While operating or moving machinery----- | - | - | - | 3 | 3 | 3 | - | 33 | 33 | | | | | | | |
| All other----- | - | - | - | 13 | 13 | 13 | - | 31 | 31 | | | | | | | |
| From an elevation: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 4 | 4 | 4 | - | 13 | 13 | | | | | | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 4 | 4 | 4 | - | 62 | 62 | | | | | | | |
| All other----- | - | - | - | 15 | 15 | 15 | - | 34 | 34 | | | | | | | |
| Handling material: | | | | | | | | | | | | | | | | |
| Prop, stull, or timber----- | - | - | 1 | 11 | 12 | 12 | 236 | 17 | 36 | | | | | | | |
| Ore, valuable mineral----- | - | - | - | 13 | 13 | 13 | - | 25 | 25 | | | | | | | |
| Rock or waste----- | - | - | - | 4 | 4 | 4 | - | 15 | 15 | | | | | | | |
| Rail----- | - | - | - | 6 | 6 | 6 | - | 10 | 10 | | | | | | | |
| Wire or wire rope----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | | | | | | |
| Flying particle while handling material----- | - | - | - | 3 | 3 | 3 | - | 5 | 5 | | | | | | | |
| All other----- | - | - | 3 | 73 | 76 | 76 | 317 | 24 | 35 | | | | | | | |
| Handtools: | | | | | | | | | | | | | | | | |
| Flying particle from tool or object worked on----- | - | - | 1 | 4 | 5 | 5 | 540 | 30 | 132 | | | | | | | |
| All other----- | - | - | - | 5 | 5 | 5 | - | 6 | 6 | | | | | | | |
| Stepping or kneeling on sharp or loose objects: | | | | | | | | | | | | | | | | |
| Stepping on loose object----- | - | - | 1 | 6 | 7 | 7 | 900 | 11 | 138 | | | | | | | |
| While working on hands or knees----- | - | - | - | 1 | 1 | 1 | - | 43 | 43 | | | | | | | |
| Striking or bumping against objects----- | - | - | - | 6 | 6 | 6 | - | 10 | 10 | | | | | | | |
| Haulage: | | | | | | | | | | | | | | | | |
| Cages, cars, or motors: | | | | | | | | | | | | | | | | |
| Struck, run over, or squeezed between: | | | | | | | | | | | | | | | | |
| Coupling or uncoupling----- | - | - | - | 1 | 1 | 1 | - | 20 | 20 | | | | | | | |
| Operating or riding----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | | | | | | |
| All other----- | 1 | - | - | 3 | 3 | 4 | - | 39 | 1,529 | | | | | | | |
| Squeezed between cage, car, or motor, and other object: | | | | | | | | | | | | | | | | |
| Coupling or uncoupling----- | - | - | - | 1 | 1 | 1 | - | 42 | 42 | | | | | | | |
| Operating or riding----- | - | - | - | 3 | 3 | 3 | - | 23 | 23 | | | | | | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 40 | 40 | | | | | | | |
| Derailment----- | - | - | - | 2 | 2 | 2 | - | 22 | 22 | | | | | | | |
| Collision (while under control)----- | 1 | - | - | - | - | 1 | - | - | 6,000 | | | | | | | |
| Shuttle cars, transloaders, and small mobile trucks: | | | | | | | | | | | | | | | | |
| Struck or run over----- | - | - | - | 2 | 2 | 2 | - | 53 | 53 | | | | | | | |
| Squeezed between shuttle car, transloader, or small mobile truck, and other object----- | - | - | - | 5 | 5 | 5 | - | 18 | 18 | | | | | | | |
| All other----- | - | - | - | 8 | 8 | 8 | - | 21 | 21 | | | | | | | |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | | | | | | | | |
| While operating----- | - | 1 | 1 | 11 | 13 | 13 | 180 | 23 | 495 | | | | | | | |
| Slip or fall on or from----- | - | - | 8 | 8 | 8 | 8 | - | 5 | 5 | | | | | | | |
| Miscellaneous haulage: | | | | | | | | | | | | | | | | |
| Rope or cable on haulage----- | - | - | 1 | 7 | 8 | 8 | 240 | 16 | 44 | | | | | | | |
| Slip or strain from moving car by hand----- | - | - | 1 | - | 1 | 1 | 50 | - | 50 | | | | | | | |
| Flying particle----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| Explosives: Flying fragments----- | - | - | - | 1 | 1 | 1 | - | 203 | 203 | | | | | | | |
| Electricity: | | | | | | | | | | | | | | | | |
| Trolley wire or pole----- | - | - | - | 1 | 1 | 1 | - | 11 | 11 | | | | | | | |
| Transformer, generator, or stationary motor----- | - | - | - | 1 | 1 | 1 | - | 22 | 22 | | | | | | | |
| Power or lighting circuit----- | - | - | - | 1 | 1 | 1 | - | 17 | 17 | | | | | | | |
| Cut-out switch or junction box----- | - | - | - | 4 | 4 | 4 | - | 4 | 4 | | | | | | | |
| Cable, cable arc, or blowup----- | - | - | - | 2 | 2 | 2 | - | 21 | 21 | | | | | | | |
| Machinery: | | | | | | | | | | | | | | | | |
| While moving mining machine (chain, arc, longwall)----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| While setting up mining machine (jack, bar, skid)----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| While operating mining machine (cutter bar, chain, bit)----- | - | - | 1 | 1 | 2 | 2 | 1,300 | 4 | 652 | | | | | | | |
| Belt conveyor----- | 1 | - | - | 1 | 1 | 2 | - | 11 | 3,006 | | | | | | | |
| Mucking machine, mechanical loader----- | - | - | - | 1 | 1 | 1 | - | 185 | 185 | | | | | | | |
| Power drill; rotary or percussive (except rock bolting)----- | - | - | - | 21 | 21 | 21 | - | 21 | 21 | | | | | | | |
| Power equipment (except drill) for rock bolting----- | - | - | - | 1 | 1 | 1 | - | 65 | 65 | | | | | | | |
| Power shovel, dragline, bulldozer, etc.----- | - | - | - | 4 | 4 | 4 | - | 16 | 16 | | | | | | | |
| While moving any machine except mining or loading----- | - | - | - | 2 | 2 | 2 | - | 8 | 8 | | | | | | | |
| Particle set in motion by machinery (except rock bolting)----- | - | - | - | 3 | 3 | 3 | - | 9 | 9 | | | | | | | |
| Continuous mining machine----- | - | - | - | 1 | - | 1 | 75 | - | 75 | | | | | | | |
| All other----- | - | - | - | 3 | 3 | 3 | - | 38 | 38 | | | | | | | |
| Fires or suffocation from fires----- | 1 | - | - | - | - | 1 | - | - | 6,000 | | | | | | | |
| Miscellaneous causes: | | | | | | | | | | | | | | | | |
| Acetylene or electric welding or cutting----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | | | | | | |
| Irritation or burn from caustic or acid----- | - | - | - | 1 | 1 | 1 | - | 10 | 10 | | | | | | | |
| All other----- | - | - | - | 7 | 7 | 7 | - | 9 | 9 | | | | | | | |
| Total or average, excluding shaft and slope----- | 10 | 1 | 12 | 354 | 367 | 377 | 380 | 25 | 210 | | | | | | | |

TABLE A-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States,
by general work location and detailed cause, 1970 - Continued

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | | | | | | | | |
|--|----------|-----------|----|--------------------|-----------------|----------------------|--------------------|-----------------|-------|--|--|--|--|--|--|--|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | | | | | | | | |
| | | Permanent | | Temporary total | | | | | | | | | | | | |
| General work location and detailed cause by injury | | | | | | | | | | | | | | | | |
| UNDERGROUND MINES - Continued | | | | | | | | | | | | | | | | |
| Shaft and slope: | | | | | | | | | | | | | | | | |
| Falls of roof or back: While mining----- | - | - | - | 1 | 1 | 1 | - | 44 | 44 | | | | | | | |
| Sliding or falling material or objects: Falling cage----- | 2 | - | - | - | - | 2 | - | - | 6,000 | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | | | | | | |
| From an elevation: Down shaft or slope----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| Striking or bumping against objects----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| Miscellaneous haulage: Rope or cable on haulage----- | - | - | - | 1 | 1 | 1 | - | 60 | 60 | | | | | | | |
| Total or average, shaft and slope----- | 2 | - | - | 4 | 4 | 6 | - | 28 | 2,019 | | | | | | | |
| Total or average, underground----- | 12 | 1 | 12 | 358 | 371 | 383 | 380 | 25 | 239 | | | | | | | |
| Surface at underground: | | | | | | | | | | | | | | | | |
| Sliding or falling material or objects: From car, bin, platform, or chute----- | - | - | - | 1 | 1 | 1 | - | 36 | 36 | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | | | | | | |
| On same level: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 4 | 4 | 4 | - | 8 | 8 | | | | | | | |
| All other----- | - | - | - | 6 | 6 | 6 | - | 17 | 17 | | | | | | | |
| From an elevation: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 2 | 2 | 2 | - | 15 | 15 | | | | | | | |
| While operating or moving machinery----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 1 | 1 | 1 | - | 39 | 39 | | | | | | | |
| All other----- | - | - | - | 6 | 6 | 6 | - | 34 | 34 | | | | | | | |
| Handling material: | | | | | | | | | | | | | | | | |
| Ore, valuable mineral----- | - | - | - | 2 | 2 | 2 | - | 18 | 18 | | | | | | | |
| Rock or waste----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| All other----- | - | - | 1 | 18 | 19 | 19 | 940 | 38 | 86 | | | | | | | |
| Handtools: | | | | | | | | | | | | | | | | |
| Crowbar or bar----- | - | - | - | 2 | 2 | 2 | - | 8 | 8 | | | | | | | |
| All other----- | - | - | - | 1 | 1 | 1 | - | 104 | 104 | | | | | | | |
| Stepping or kneeling on sharp or loose objects: | | | | | | | | | | | | | | | | |
| Stepping on sharp object----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | | | | | | |
| Stepping on loose object----- | - | - | - | 3 | 3 | 3 | - | 7 | 7 | | | | | | | |
| Striking or bumping against objects----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | | | | | | |
| Haulage: | | | | | | | | | | | | | | | | |
| Shuttle cars, transloaders, and small mobile trucks----- | - | - | - | 1 | 1 | 1 | - | 6 | 6 | | | | | | | |
| Railroad cars and locomotives----- | - | - | - | 3 | 3 | 3 | - | 21 | 21 | | | | | | | |
| Automobiles, gasoline or diesel trucks: While operating----- | - | - | - | 4 | 4 | 4 | - | 10 | 10 | | | | | | | |
| Miscellaneous haulage: Rope or cable on haulage----- | - | - | - | 3 | 3 | 3 | - | 42 | 42 | | | | | | | |
| Machinery: | | | | | | | | | | | | | | | | |
| Stationary machinery----- | - | - | 1 | 3 | 4 | 4 | 1,140 | 50 | 322 | | | | | | | |
| While moving any machine except mining or loading----- | 1 | - | - | - | - | 1 | - | - | 6,000 | | | | | | | |
| Particle set in motion by machinery----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| All other----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 | | | | | | | |
| Miscellaneous causes: | | | | | | | | | | | | | | | | |
| Acetylene or electric welding or cutting----- | - | - | - | 2 | 2 | 2 | - | 4 | 4 | | | | | | | |
| Burn from controlled fire----- | - | - | - | 1 | 1 | 1 | - | 28 | 28 | | | | | | | |
| Total or average, surface at underground----- | 1 | - | 2 | 69 | 71 | 72 | 1,040 | 25 | 136 | | | | | | | |
| Total or average, underground mines----- | 13 | 1 | 14 | 427 | 442 | 455 | 474 | 25 | 222 | | | | | | | |
| OPEN PIT MINES | | | | | | | | | | | | | | | | |
| Falls of face or side----- | - | - | - | 1 | 1 | 1 | - | 6 | 6 | | | | | | | |
| Sliding or falling material or objects: | | | | | | | | | | | | | | | | |
| From car, bin, platform, or chute----- | - | - | 2 | 7 | 9 | 9 | 240 | 55 | 96 | | | | | | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 6 | 6 | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | | | | | | |
| On same level: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 7 | 7 | 7 | - | 18 | 18 | | | | | | | |
| While operating or moving machinery----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 | | | | | | | |
| All other----- | - | - | - | 16 | 16 | 16 | - | 13 | 13 | | | | | | | |
| From an elevation: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 6 | 6 | 6 | - | 15 | 15 | | | | | | | |
| While operating or moving machinery----- | - | - | - | 1 | 1 | 1 | - | 75 | 75 | | | | | | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 5 | 5 | 5 | - | 48 | 48 | | | | | | | |
| All other----- | - | - | 1 | 16 | 17 | 17 | 225 | 36 | 47 | | | | | | | |
| Handling material: | | | | | | | | | | | | | | | | |
| Prop, stull, or timber----- | - | - | - | 2 | 2 | 2 | - | 18 | 18 | | | | | | | |
| Ore, valuable mineral----- | - | - | - | 8 | 8 | 8 | - | 18 | 18 | | | | | | | |
| Rock or waste----- | - | - | 1 | 3 | 4 | 4 | 50 | 7 | 18 | | | | | | | |
| Rail----- | - | - | - | 3 | 3 | 3 | - | 10 | 10 | | | | | | | |
| Flying particle while handling material----- | - | - | - | 4 | 4 | 4 | - | 2 | 2 | | | | | | | |
| All other----- | - | - | 6 | 38 | 44 | 44 | 222 | 14 | 42 | | | | | | | |
| Handtools: | | | | | | | | | | | | | | | | |
| Pick----- | - | - | - | 6 | 6 | 6 | - | 11 | 11 | | | | | | | |
| Hammer or sledge----- | - | - | - | 2 | 2 | 2 | - | 2 | 2 | | | | | | | |
| Crowbar or bar----- | - | - | 1 | 2 | 3 | 3 | 50 | 27 | 35 | | | | | | | |
| Shovel----- | - | - | - | 1 | 1 | 1 | - | 8 | 8 | | | | | | | |
| Flying particle from tool or object worked on----- | - | - | - | 3 | 3 | 3 | - | 4 | 4 | | | | | | | |
| All other----- | - | - | - | 19 | 19 | 19 | - | 21 | 21 | | | | | | | |
| Stepping or kneeling on sharp or loose objects: | | | | | | | | | | | | | | | | |
| Stepping on sharp object----- | - | - | - | 2 | 2 | 2 | - | 16 | 16 | | | | | | | |
| Stepping on loose object----- | - | - | - | 13 | 13 | 13 | - | 14 | 14 | | | | | | | |

TABLE A-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States,
by general work location and detailed cause, 1970 - Continued

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | | | |
|---|----------|-----------|---------|--------------------|-----------------|----------------------|--------------------|-----------------|-------|--|--|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | | | |
| | | Permanent | | Temporary total | | | | | | | |
| | | Total | Partial | Total nonfatal | | | | | | | |
| OPEN PIT MINES - Continued | | | | | | | | | | | |
| Striking or bumping against objects----- | - | - | - | 1 | 1 | 1 | - | 30 | 30 | | |
| Haulage: | | | | | | | | | | | |
| Skips, cars, or motors: | | | | | | | | | | | |
| Squeezed between skip, car, or motor, and other object: | | | | | | | | | | | |
| Pulling, pushing, or dropping----- | - | - | - | 1 | 1 | 1 | - | 15 | 15 | | |
| Shuttle cars, transloaders, and small mobile trucks----- | - | - | 1 | 1 | 2 | 2 | 240 | 4 | 122 | | |
| Railroad cars and locomotives----- | - | - | 1 | 4 | 5 | 5 | 60 | 20 | 28 | | |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | | | |
| While operating----- | 1 | - | 2 | 20 | 22 | 23 | 642 | 19 | 333 | | |
| Slip or fall on or from----- | - | - | - | 9 | 9 | 9 | - | 13 | 13 | | |
| Miscellaneous haulage: | | | | | | | | | | | |
| Coupling or uncoupling (cars not moving)----- | - | - | 1 | - | 1 | 1 | 200 | - | 200 | | |
| Rope or cable on haulage----- | - | - | 1 | 7 | 8 | 8 | 75 | 15 | 22 | | |
| Flying particle----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 1 | 1 | | |
| Electricity: | | | | | | | | | | | |
| Transformer, generator, or stationary motor----- | - | - | - | 1 | 1 | 1 | - | 13 | 13 | | |
| Power or lighting circuit----- | 3 | - | - | - | - | 3 | - | - | 6,000 | | |
| Machinery: | | | | | | | | | | | |
| Belt conveyor----- | - | - | - | 3 | 3 | 3 | - | 78 | 78 | | |
| Chain, bucket, shaker, or screw conveyor----- | - | - | - | 2 | 2 | 2 | - | 10 | 10 | | |
| Power drill; rotary or percussive----- | - | - | - | 3 | 3 | 3 | - | 5 | 5 | | |
| Power shovel, dragline, bulldozer, etc.----- | 1 | - | 2 | 25 | 27 | 28 | 470 | 21 | 267 | | |
| Stationary machinery----- | - | - | 2 | 4 | 6 | 6 | 142 | 41 | 75 | | |
| While moving any machine except mining or loading----- | - | - | - | 3 | 3 | 3 | - | 17 | 17 | | |
| Particle set in motion by machinery----- | - | - | - | 3 | 3 | 3 | - | 4 | 4 | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 6 | 6 | | |
| Suffocation (no flame or smoldering): Foreign gas----- | - | - | - | 1 | 1 | 1 | - | 6 | 6 | | |
| Fires or suffocation from fires: | | | | | | | | | | | |
| Belt conveyor----- | - | - | - | 1 | 1 | 1 | - | 23 | 23 | | |
| Oil, gasoline, other flammable liquid----- | - | - | - | 1 | 1 | 1 | - | 13 | 13 | | |
| Miscellaneous causes: | | | | | | | | | | | |
| Flying particle from draft or wind----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | |
| Acetylene or electric welding or cutting----- | - | - | - | 4 | 4 | 4 | - | 8 | 8 | | |
| Burn from controlled fire----- | - | - | - | 3 | 3 | 3 | - | 7 | 7 | | |
| All other----- | - | - | - | 6 | 6 | 6 | - | 12 | 12 | | |
| Total or average, open pit mines----- | 5 | - | 21 | 277 | 298 | 303 | 249 | 19 | 133 | | |
| OTHER SURFACE MINING | | | | | | | | | | | |
| Sliding or falling material or objects----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | |
| Slips or falls of persons: | | | | | | | | | | | |
| On same level: | | | | | | | | | | | |
| While handling material----- | - | - | - | 2 | 2 | 2 | - | 12 | 12 | | |
| All other----- | - | - | - | 7 | 7 | 7 | - | 39 | 39 | | |
| From an elevation: | | | | | | | | | | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 4 | 4 | 4 | - | 66 | 66 | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 32 | 32 | | |
| Handling material: | | | | | | | | | | | |
| Rail----- | - | - | - | 4 | 4 | 4 | - | 12 | 12 | | |
| All other----- | - | - | - | 13 | 13 | 13 | - | 20 | 20 | | |
| Stepping or kneeling on sharp or loose objects: Stepping on sharp object----- | - | - | - | 4 | 4 | 4 | - | 18 | 18 | | |
| Striking or bumping against objects----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | |
| Haulage: | | | | | | | | | | | |
| Automobiles, gasoline or diesel trucks: Slip or fall on or from----- | - | - | - | 2 | 2 | 2 | - | 6 | 6 | | |
| Water transportation----- | - | - | - | 1 | 1 | 1 | - | 62 | 62 | | |
| Miscellaneous haulage: | | | | | | | | | | | |
| Coupling or uncoupling (cars not moving)----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | |
| Rope or cable on haulage----- | - | - | - | 1 | 1 | 1 | - | 18 | 18 | | |
| Electricity----- | - | - | - | 1 | 1 | 1 | - | 36 | 36 | | |
| Machinery: | | | | | | | | | | | |
| Power shovel, dragline, bulldozer, etc.----- | - | - | - | 1 | 1 | 1 | - | 29 | 29 | | |
| Stationary machinery----- | - | - | - | 1 | 1 | 1 | - | 10 | 10 | | |
| Suffocation (no flame or smoldering): Foreign gas----- | - | - | - | 2 | 2 | 2 | - | 10 | 10 | | |
| Miscellaneous causes: | | | | | | | | | | | |
| Irritation or burn from caustic or acid----- | - | - | - | 5 | 5 | 5 | - | 6 | 6 | | |
| Burn from controlled fire----- | - | - | - | 5 | 5 | 5 | - | 26 | 26 | | |
| All other----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 | | |
| Total or average, other surface mining----- | - | - | - | 59 | 59 | 59 | - | 23 | 23 | | |
| Total or average, mining----- | 18 | 1 | 35 | 763 | 799 | 817 | 339 | 22 | 175 | | |
| MILLS | | | | | | | | | | | |
| Sliding or falling material or objects: | | | | | | | | | | | |
| Dropped or thrown by coworker----- | - | - | - | 4 | 4 | 4 | - | 4 | 4 | | |
| From car, bin, platform, or chute----- | 2 | - | - | 14 | 14 | 16 | - | 26 | 773 | | |
| Falling equipment or machinery under repair----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | |
| From stockpile, dump, or gob----- | - | - | - | 2 | 2 | 2 | - | 24 | 24 | | |
| All other----- | - | - | - | 6 | 6 | 6 | - | 78 | 78 | | |

TABLE A-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States, by general work location and detailed cause, 1970 - Continued

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | | | |
|---|----------|-----------|---------|-----------------|--------------|-------------------|------------------|--------------|-------|--|--|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | | | |
| | | Permanent | | Temporary total | | | | | | | |
| | | Total | Partial | Total nonfatal | | | | | | | |
| MILLS - Continued | | | | | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | |
| On same level: | | | | | | | | | | | |
| While escaping another hazard----- | - | - | - | 1 | 1 | - | 7 | 7 | | | |
| While handling material----- | - | - | 2 | 40 | 42 | 42 | 1,100 | 22 | 74 | | |
| Caused by handtool slipping or breaking----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | |
| While operating or moving machinery----- | - | - | - | 4 | 4 | 4 | - | 7 | 7 | | |
| All other----- | - | - | 1 | 80 | 81 | 81 | 300 | 23 | 26 | | |
| From an elevation: | | | | | | | | | | | |
| While escaping another hazard----- | - | - | - | 2 | 2 | 2 | - | 86 | 86 | | |
| While handling material----- | - | - | 1 | 30 | 31 | 31 | 600 | 31 | 49 | | |
| While operating or moving machinery----- | - | - | - | 8 | 8 | 8 | - | 40 | 40 | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 25 | 25 | 25 | - | 40 | 40 | | |
| All other----- | - | - | 1 | 85 | 86 | 86 | 2,400 | 19 | 47 | | |
| Handling material: | | | | | | | | | | | |
| Prop, stull, or timber----- | - | - | - | 27 | 27 | 27 | - | 9 | 9 | | |
| Ore, valuable mineral----- | 4 | - | 3 | 81 | 84 | 88 | 50 | 15 | 288 | | |
| Rock or waste----- | - | - | - | 9 | 9 | 9 | - | 15 | 15 | | |
| Rail----- | - | - | 1 | 20 | 21 | 21 | 75 | 18 | 20 | | |
| Flying particle while handling material----- | - | - | - | 39 | 39 | 39 | - | 5 | 5 | | |
| All other----- | - | - | 11 | 477 | 488 | 488 | 231 | 19 | 24 | | |
| Handtools: | | | | | | | | | | | |
| Pick----- | - | - | - | 2 | 2 | 2 | - | 6 | 6 | | |
| Hammer or sledge----- | - | - | - | 6 | 6 | 6 | - | 6 | 6 | | |
| Crowbar or bar----- | - | - | - | 14 | 14 | 14 | - | 12 | 12 | | |
| Shovel----- | - | - | - | 1 | 1 | 1 | - | 47 | 47 | | |
| In hand of fellow worker----- | - | - | - | 5 | 5 | 5 | - | 29 | 29 | | |
| Flying particle from tool or object worked on----- | - | - | - | 2 | 2 | 2 | - | 8 | 8 | | |
| All other----- | - | - | 1 | 20 | 21 | 21 | 900 | 12 | 54 | | |
| Stepping or kneeling on sharp or loose objects: | | | | | | | | | | | |
| Stepping on sharp object----- | - | - | - | 6 | 6 | 6 | - | 15 | 15 | | |
| Stepping on loose object----- | - | - | - | 17 | 17 | 17 | - | 23 | 23 | | |
| While working on hands and knees----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | |
| Striking or bumping against objects----- | - | - | - | 25 | 25 | 25 | - | 13 | 13 | | |
| Haulage: | | | | | | | | | | | |
| Cages, cars, or motors: | | | | | | | | | | | |
| Struck, run over, or squeezed between: | | | | | | | | | | | |
| Pulling, pushing, or dropping----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | |
| All other----- | - | - | - | 3 | 3 | 3 | - | 11 | 11 | | |
| Squeezed between cage, car, or motor, and other object: | | | | | | | | | | | |
| Switching, spragging, blocking, or braking----- | - | - | - | 2 | 2 | 2 | - | 16 | 16 | | |
| Pulling, pushing, or dropping----- | - | - | - | 6 | 6 | 6 | - | 26 | 26 | | |
| Shuttle cars, transloaders, and small mobile trucks: | | | | | | | | | | | |
| Struck or run over----- | - | - | - | 14 | 14 | 14 | - | 54 | 54 | | |
| Squeezed between shuttle car, transloader, or small mobile truck, and other object----- | - | - | - | 12 | 12 | 12 | - | 13 | 13 | | |
| All other----- | - | - | - | 2 | 27 | 29 | 250 | 20 | 36 | | |
| Railroad cars and locomotives----- | - | - | 3 | 59 | 62 | 62 | 860 | 21 | 62 | | |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | | | |
| While operating----- | 1 | - | 1 | 22 | 23 | 24 | 360 | 37 | 299 | | |
| Slip or fall on or from----- | - | - | - | 21 | 21 | 21 | - | 20 | 20 | | |
| Water transportation----- | - | - | - | 2 | 2 | 2 | - | 55 | 55 | | |
| Miscellaneous haulage: | | | | | | | | | | | |
| Rope or cable on haulage----- | - | - | 3 | 14 | 17 | 17 | 200 | 20 | 52 | | |
| Slip or strain from moving car by hand----- | - | - | 1 | 27 | 28 | 28 | 50 | 34 | 35 | | |
| All other----- | - | - | - | 6 | 6 | 6 | - | 14 | 14 | | |
| Electricity: | | | | | | | | | | | |
| Cut-out switch or junction box----- | - | - | - | 2 | 2 | 2 | - | 9 | 9 | | |
| Cable, cable arc, or blowup----- | - | - | 1 | - | 1 | 1 | 300 | - | 300 | | |
| All other----- | - | - | - | 3 | 3 | 3 | - | 23 | 23 | | |
| Machinery: | | | | | | | | | | | |
| Belt conveyor----- | 1 | - | 6 | 30 | 36 | 37 | 1,416 | 42 | 426 | | |
| Chain, bucket, shaker, or screw conveyor----- | - | - | 1 | 6 | 7 | 7 | 540 | 6 | 82 | | |
| Power drill; rotary or percussive----- | - | - | - | 9 | 9 | 9 | - | 16 | 16 | | |
| Power shovel, dragline, bulldozer, etc.----- | 1 | - | 2 | 17 | 19 | 20 | 220 | 14 | 334 | | |
| Stationary machinery----- | 1 | - | 15 | 73 | 88 | 89 | 913 | 17 | 235 | | |
| While moving any machine except mining or loading----- | - | - | - | 2 | 2 | 2 | - | 38 | 38 | | |
| Particle set in motion by machinery----- | - | - | - | 9 | 9 | 9 | - | 21 | 21 | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 38 | 38 | | |
| Suffocation (no flame or smoldering): Foreign gas----- | - | - | - | 3 | 3 | 3 | - | 12 | 12 | | |
| Fires or suffocation from fires: Oil, gasoline, other flammable liquid----- | - | - | - | 1 | 1 | 1 | - | 22 | 22 | | |
| Miscellaneous causes: | | | | | | | | | | | |
| Flying particle from draft or wind----- | - | - | - | 10 | 10 | 10 | - | 3 | 3 | | |
| Acetylene or electric welding or cutting----- | - | - | - | 20 | 20 | 20 | - | 6 | 6 | | |
| Irritation or burn from caustic or acid----- | - | - | - | 21 | 21 | 21 | - | 12 | 12 | | |
| Burn from controlled fire----- | - | - | 37 | 37 | 37 | 37 | - | 12 | 12 | | |
| All other----- | - | - | - | 21 | 21 | 21 | - | 21 | 21 | | |
| Pneumoconiosis----- | - | 1 | - | 1 | 2 | 2 | - | 12 | 3,006 | | |
| Total or average, mills----- | 10 | 1 | 56 | 1,538 | 1,595 | 1,605 | 656 | 20 | 83 | | |
| Grand total or average----- | 28 | 2 | 91 | 2,301 | 2,394 | 2,422 | 534 | 21 | 114 | | |

TABLE A-3. - Fatal injuries and distribution by part of body injured at nonmetal mines and mills in the United States, by general work location and detailed cause, 1970

| General work location and detailed cause | Injuries | | | | | | | | | | Percentage distribution |
|--|---------------------------------|-----|-------|-------------------|----------------------|-------------------|-------------------|----------|------------------------|-------|-------------------------|
| | Head, face, neck (excl. eye) | Eye | Trunk | Arm (above wrist) | Wrist, hand, fingers | Leg (above ankle) | Ankle, foot, toes | Multiple | Unclassified (no data) | Total | |
| UNDERGROUND MINES | | | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | | | |
| Falls of roof or back: | | | | | | | | | | | |
| While loading----- | - | - | - | - | - | - | - | 4 | - | 4 | 33.33 |
| While testing or barring down back----- | - | - | - | - | - | - | - | 1 | - | 1 | 8.33 |
| All other----- | 1 | - | - | - | - | - | - | - | - | 1 | 8.33 |
| Sliding or falling material or objects: Falling cage----- | - | - | - | - | - | - | - | 2 | - | 2 | 16.67 |
| Haulage: | | | | | | | | | | | |
| Cages, cars, or motors: | | | | | | | | | | | |
| Struck, run over, or squeezed between----- | - | - | 1 | - | - | - | - | - | - | 1 | 8.33 |
| Collision (while under control)----- | - | - | - | 1 | - | - | - | 1 | - | 1 | 8.33 |
| Machinery: Belt conveyor----- | - | - | - | - | - | - | - | - | - | 1 | 8.33 |
| Fires or suffocation from fires----- | - | - | 1 | - | - | - | - | - | - | 1 | 8.33 |
| Total, underground----- | 1 | - | 2 | 1 | - | - | - | 8 | - | 12 | - |
| Percentage distribution----- | 8.33 | - | 16.67 | 8.33 | - | - | - | 66.67 | - | - | - |
| Surface at underground: | | | | | | | | | | | |
| Machinery: While moving any machine except mining or loading----- | - | - | - | - | - | - | - | 1 | - | 1 | 100.00 |
| Total, surface at underground----- | - | - | - | - | - | - | - | 1 | - | 1 | - |
| Percentage distribution----- | - | - | - | - | - | - | - | 100.00 | - | - | - |
| Total, underground mines----- | 1 | - | 2 | 1 | - | - | - | 9 | - | 13 | - |
| Percentage distribution----- | 7.69 | - | 15.38 | 7.69 | - | - | - | 69.23 | - | - | - |
| ALL SURFACE MINES | | | | | | | | | | | |
| Haulage: | | | | | | | | | | | |
| Automobiles, gasoline or diesel trucks: While operating----- | - | - | 1 | - | - | - | - | - | - | 1 | 20.00 |
| Electricity: Power or lighting circuit----- | - | - | - | - | - | - | - | 3 | - | 3 | 60.00 |
| Machinery: Power shovel, dragline, bulldozer, etc----- | - | - | - | - | - | - | - | 1 | - | 1 | 20.00 |
| Total, surface mines----- | - | - | 1 | - | - | - | - | 4 | - | 5 | - |
| Percentage distribution----- | - | - | 20.00 | - | - | - | - | 80.00 | - | - | - |
| Total, mining----- | 1 | - | 3 | 1 | - | - | - | 13 | - | 18 | - |
| Percentage distribution----- | 5.56 | - | 16.67 | 5.56 | - | - | - | 72.22 | - | - | - |
| MILLS | | | | | | | | | | | |
| Sliding or falling material or objects: From car, bin, platform, or chute----- | - | - | 2 | - | - | - | - | - | - | 2 | 20.00 |
| Handling material: Ore, valuable mineral----- | - | - | 4 | - | - | - | - | - | - | 4 | 40.00 |
| Haulage: | | | | | | | | | | | |
| Automobiles, gasoline or diesel trucks: While operating----- | - | - | - | - | - | - | - | 1 | - | 1 | 10.00 |
| Machinery: | | | | | | | | | | | |
| Belt conveyor----- | - | - | - | 1 | - | - | - | - | - | 1 | 10.00 |
| Power shovel, dragline, bulldozer, etc----- | - | - | - | - | - | - | - | 1 | - | 1 | 10.00 |
| Stationary machinery----- | 1 | - | - | - | - | - | - | - | - | 1 | 10.00 |
| Total, mills----- | 1 | - | 6 | 1 | - | - | - | 2 | - | 10 | - |
| Percentage distribution----- | 10.00 | - | 60.00 | 10.00 | - | - | - | 20.00 | - | - | - |
| Grand total----- | 2 | - | 9 | 2 | - | - | - | 15 | - | 28 | - |
| Percentage distribution----- | 7.14 | - | 32.14 | 7.14 | - | - | - | 53.57 | - | - | - |

TABLE A-4. - Injuries, distribution, average severity by degree, and injury rates at nonmetal mines and mills in the United States,
by general work location and part of body injured, 1970

| General work location and part of body injured | Injuries | | | | | | Percent-age distribution of all injuries ^y | Average severity | | | Frequency rates per million man-hours | | Severity rates per million man-hours | | |
|--|----------|-----------|---------|------------------|--------------|--------------------|--|------------------|-------|-----------|---------------------------------------|-----------|--------------------------------------|-----------|--|
| | Fatal | Nonfatal | | | All injuries | Perma-nent partial | | All injuries | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | |
| | | Permanent | | Tempo-rary total | | | | | | | | | | | |
| | | Total | Partial | Total non-fatal | All injuries | Perma-nent partial | Tempo-rary total | All injuries | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | |
| UNDERGROUND MINES | | | | | | | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | 1 | - | - | 22 | 22 | 23 | 6.1 | - | 13 | 273 | 0.12 | 2.56 | 698 | 33 | |
| Eye----- | - | - | 1 | 18 | 19 | 19 | 5.1 | 540 | 6 | 34 | - | 2.21 | - | 75 | |
| Trunk----- | 2 | 1 | 4 | 118 | 123 | 125 | 33.4 | 295 | 27 | 179 | .23 | 14.30 | 1,395 | 1,205 | |
| Arm (above wrist)----- | 1 | - | - | 11 | 11 | 12 | 3.2 | - | 66 | 560 | .12 | 1.28 | 698 | 84 | |
| Wrist, hand, fingers----- | - | - | 6 | 54 | 60 | 60 | 16.0 | 257 | 22 | 45 | - | 6.98 | - | 314 | |
| Leg (above ankle)----- | - | - | - | 45 | 45 | 45 | 12.0 | - | 33 | 33 | - | 5.23 | - | 171 | |
| Ankle, foot, toes----- | - | - | 1 | 56 | 57 | 57 | 15.2 | 1,300 | 18 | 41 | - | 6.63 | - | 271 | |
| Multiple----- | 8 | - | - | 25 | 25 | 33 | 8.8 | - | 29 | 1,476 | .93 | 2.91 | 5,581 | 83 | |
| Unclassified (no data)----- | - | - | - | 9 | 9 | 9 | - | - | 18 | 18 | - | 1.05 | - | 19 | |
| Total or average----- | 12 | 1 | 12 | 358 | 371 | 383 | - | 380 | 25 | 239 | 1.40 | 43.14 | 8,372 | 2,256 | |
| Surface at underground: | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | - | - | - | 6 | 6 | 6 | 8.5 | - | 21 | 21 | - | 2.11 | - | 45 | |
| Eye----- | - | - | - | 3 | 3 | 3 | 4.2 | - | 4 | 4 | - | 1.05 | - | 4 | |
| Trunk----- | - | - | - | 30 | 30 | 30 | 42.3 | - | 36 | 36 | - | 10.53 | - | 374 | |
| Wrist, hand, fingers----- | - | - | 2 | 11 | 13 | 13 | 18.3 | 1,040 | 9 | 167 | - | 4.56 | - | 763 | |
| Leg (above ankle)----- | - | - | - | 5 | 5 | 5 | 7.0 | - | 9 | 9 | - | 1.76 | - | 15 | |
| Ankle, foot, toes----- | - | - | - | 8 | 8 | 8 | 11.3 | - | 18 | 18 | - | 2.81 | - | 51 | |
| Multiple----- | 1 | - | - | 5 | 5 | 6 | 8.5 | - | 50 | 1,042 | .35 | 1.76 | 2,106 | 88 | |
| Unclassified (no data)----- | - | - | - | 1 | 1 | 1 | - | - | 10 | 10 | - | .35 | - | 4 | |
| Total or average----- | 1 | - | 2 | 69 | 71 | 72 | - | 1,040 | 25 | 136 | .35 | 24.93 | 2,106 | 1,344 | |
| Total or average, underground mines----- | 13 | 1 | 14 | 427 | 442 | 455 | - | 474 | 25 | 222 | 1.14 | 38.61 | 6,813 | 2,029 | |
| OPEN PIT MINES | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | - | - | - | 10 | 10 | 10 | 3.6 | - | 24 | 24 | - | .64 | - | 15 | |
| Eye----- | - | - | - | 16 | 16 | 16 | 5.7 | - | 15 | 15 | - | 1.02 | - | 15 | |
| Trunk----- | 1 | - | 6 | 97 | 103 | 104 | 37.0 | 147 | 18 | 83 | .06 | 6.54 | 381 | 166 | |
| Arm (above wrist)----- | - | - | - | 12 | 12 | 12 | 4.3 | - | 30 | 30 | - | .76 | - | 23 | |
| Wrist, hand, fingers----- | - | - | 13 | 40 | 53 | 53 | 18.9 | 224 | 12 | 64 | - | 3.37 | - | 215 | |
| Leg (above ankle)----- | - | - | 2 | 34 | 36 | 36 | 12.8 | 712 | 23 | 61 | - | 2.29 | - | 140 | |
| Ankle, foot, toes----- | - | - | - | 37 | 37 | 37 | 13.2 | - | 19 | 19 | - | 2.35 | - | 44 | |
| Multiple----- | 4 | - | - | 9 | 9 | 13 | 4.6 | - | 33 | 1,869 | .25 | .57 | 1,525 | 19 | |
| Unclassified (no data)----- | - | - | - | 22 | 22 | 22 | - | - | 17 | 17 | - | 1.40 | - | 24 | |
| Total or average----- | 5 | - | 21 | 277 | 298 | 303 | - | 249 | 19 | 133 | .32 | 18.93 | 1,906 | 661 | |
| OTHER SURFACE MINING | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | - | - | - | 2 | 2 | 2 | 3.5 | - | 8 | 8 | - | .38 | - | 3 | |
| Eye----- | - | - | - | 4 | 4 | 4 | 7.0 | - | 7 | 7 | - | .77 | - | 5 | |
| Trunk----- | - | - | - | 13 | 13 | 13 | 22.8 | - | 17 | 17 | - | 2.49 | - | 42 | |
| Arm (above wrist)----- | - | - | - | 4 | 4 | 4 | 7.0 | - | 36 | 36 | - | .77 | - | 27 | |
| Wrist, hand, fingers----- | - | - | - | 9 | 9 | 9 | 15.8 | - | 19 | 19 | - | 1.72 | - | 32 | |
| Leg (above ankle)----- | - | - | - | 11 | 11 | 11 | 19.3 | - | 43 | 43 | - | 2.11 | - | 91 | |
| Ankle, foot, toes----- | - | - | - | 9 | 9 | 9 | 15.8 | - | 22 | 22 | - | 1.72 | - | 38 | |
| Multiple----- | - | - | - | 5 | 5 | 5 | 8.8 | - | 16 | 16 | - | .96 | - | 15 | |
| Unclassified (no data)----- | - | - | - | 2 | 2 | 2 | - | - | 17 | 17 | - | .38 | - | 7 | |
| Total or average----- | - | - | - | 59 | 59 | 59 | - | - | 23 | 23 | - | 11.30 | - | 261 | |
| Total or average, mining----- | 18 | 1 | 35 | 763 | 799 | 817 | - | 339 | 22 | 175 | .56 | 24.65 | 3,332 | 1,080 | |
| MILLS | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | 1 | - | - | 54 | 54 | 55 | 3.6 | - | 23 | 132 | .02 | .87 | 96 | 20 | |
| Eye----- | - | - | - | 94 | 94 | 94 | 6.2 | - | 5 | 5 | - | 1.51 | - | 7 | |
| Trunk----- | 6 | 1 | 15 | 494 | 510 | 516 | 34.1 | 260 | 22 | 110 | .10 | 8.19 | 578 | 332 | |
| Arm (above wrist)----- | 1 | - | 2 | 71 | 73 | 74 | 4.9 | 2,430 | 22 | 167 | .02 | 1.17 | 96 | 103 | |
| Wrist, hand, fingers----- | - | - | 29 | 256 | 285 | 285 | 18.8 | 288 | 16 | 44 | - | 4.58 | - | 199 | |
| Leg (above ankle)----- | - | - | 4 | 143 | 147 | 147 | 9.7 | 2,250 | 25 | 86 | - | 2.36 | - | 202 | |
| Ankle, foot, toes----- | - | - | 5 | 268 | 273 | 273 | 18.0 | 1,224 | 19 | 41 | - | 4.38 | - | 180 | |
| Multiple----- | 2 | - | 1 | 66 | 67 | 69 | 4.6 | 4,500 | 29 | 267 | .03 | 1.08 | 193 | 103 | |
| Unclassified (no data)----- | - | - | - | 92 | 92 | 92 | - | - | 20 | 20 | - | 1.48 | - | 30 | |
| Total or average, mills----- | 10 | 1 | 56 | 1,538 | 1,595 | 1,605 | - | 656 | 20 | 83 | .16 | 25.60 | 963 | 1,177 | |
| Grand total or average----- | 28 | 2 | 91 | 2,301 | 2,394 | 2,422 | - | 534 | 21 | 114 | .30 | 25.28 | 1,774 | 1,143 | |

^y Number of injuries for which part of body is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 374; for surface, 71; for open pit, 281; for other surface mining, 57; and for mills, 1,513. Distribution percentages may not add to 100.0 because of independent rounding.

TABLE A-5. - Injuries, distribution, average severity by degree, and injury rates at nonmetal mines and mills in the United States,
by general work location and nature of injury, 1970

| General work location and nature of injury | Injuries | | | | | | Percent- age distri- bution of all injuries 1/ | Average severity | | | Frequency rates per million man-hours | | Severity rates per million man-hours | |
|---|----------|-----------|---------|------------------------|---------------------------|---------------------------|--|-------------------------|-----------------|-------|---|-------|--|-------|
| | Fatal | Nonfatal | | | All injuries | Perma- nent partial | | Tempo- rary total | All injuries | Fatal | Non- fatal | Fatal | Non- fatal | |
| | | Permanent | | Total non- fatal | | | | | | | | | | |
| | | Total | Partial | All injuries | Perma- nent partial | Tempo- rary total | All injuries | Fatal | Non- fatal | Fatal | Non- fatal | Fatal | | |
| UNDERGROUND MINES | | | | | | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | | | | | | |
| Amputation, enucleation----- | 1 | - | 5 | - | 5 | 6 | 1.6 | 503 | - | 1,419 | 0.12 | 0.58 | 698 | 292 |
| Asphyxiation----- | 1 | - | - | - | 1 | .3 | - | - | - | 6,000 | .12 | - | 698 | - |
| Crushing, contusion, bruise----- | 9 | - | 1 | 111 | 112 | 121 | 32.4 | 236 | 14 | 461 | 1.05 | 13.02 | 6,279 | 207 |
| Burn, scald (except chemical)----- | - | - | - | 9 | 9 | 9 | 2.4 | - | 12 | 12 | - | 1.05 | - | 13 |
| Chemical burn----- | - | - | - | 1 | 1 | 1 | .3 | - | 10 | 10 | - | .12 | - | 1 |
| Radiation, radiating substance----- | - | - | - | 1 | 1 | 1 | .3 | - | 1 | 1 | - | .12 | - | (2) |
| Cut, laceration, puncture----- | - | - | - | 41 | 41 | 41 | 11.0 | - | 17 | 17 | - | 4.77 | - | 79 |
| Electric shock----- | - | - | - | 2 | 2 | 2 | .5 | - | 4 | 4 | - | .23 | - | 1 |
| Foreign body in eye----- | - | - | 1 | 9 | 10 | 10 | 2.7 | 540 | 4 | 58 | - | 1.16 | - | 67 |
| Fracture----- | 1 | 1 | 2 | 39 | 42 | 43 | 11.5 | 135 | 65 | 344 | .12 | 4.88 | 698 | 1,023 |
| Hernia (inguinal)----- | - | - | 2 | 6 | 8 | 8 | 2.1 | 50 | 45 | 46 | - | .93 | - | 43 |
| Poisoning (systemic)----- | - | - | - | 1 | 1 | 1 | .3 | - | 3 | 3 | - | .12 | - | (2) |
| Strain, sprain, dislocation----- | - | - | 1 | 125 | 126 | 126 | 33.7 | 900 | 27 | 33 | - | 14.65 | - | 490 |
| Concussion (cerebral)----- | - | - | - | 1 | 1 | 1 | .3 | - | 16 | 16 | - | .12 | - | 2 |
| Hernia (except inguinal)----- | - | - | - | 1 | 1 | 1 | .3 | - | 70 | 70 | - | .12 | - | 8 |
| Inflammation or irritation of joints, tendons, muscles----- | - | - | - | 2 | 2 | 2 | .5 | - | 42 | 42 | - | .23 | - | 10 |
| Unclassified (no data)----- | - | - | - | 9 | 9 | 9 | - | - | 18 | 18 | - | 1.05 | - | 19 |
| Total or average----- | 12 | 1 | 12 | 358 | 371 | 383 | - | 380 | 25 | 239 | 1.40 | 43.14 | 8,372 | 2,256 |
| Surface at underground: | | | | | | | | | | | | | | |
| Amputation, enucleation----- | - | - | 2 | - | 2 | 2 | 2.8 | 1,040 | - | 1,040 | - | .70 | - | 730 |
| Crushing, contusion, bruise----- | 1 | - | - | 17 | 17 | 18 | 25.4 | - | 22 | 354 | .35 | 5.97 | 2,106 | 132 |
| Burn, scald (except chemical)----- | - | - | - | 4 | 4 | 4 | 5.6 | - | 9 | 9 | - | 1.40 | - | 12 |
| Radiation, radiating substance----- | - | - | - | 1 | 1 | 1 | 1.4 | - | 5 | 5 | - | .35 | - | 2 |
| Cut, laceration, puncture----- | - | - | - | 3 | 3 | 3 | 4.2 | - | 3 | 3 | - | 1.05 | - | 3 |
| Foreign body in eye----- | - | - | - | 1 | 1 | 1 | 1.4 | - | 4 | 4 | - | .35 | - | 1 |
| Fracture----- | - | - | - | 9 | 9 | 9 | 12.7 | - | 44 | 44 | - | 3.16 | - | 138 |
| Hernia (inguinal)----- | - | - | - | 1 | 1 | 1 | 1.4 | - | 56 | 56 | - | .35 | - | 20 |
| Strain, sprain, dislocation----- | - | - | - | 31 | 31 | 31 | 43.7 | - | 25 | 25 | - | 10.88 | - | 267 |
| Hernia (except inguinal)----- | - | - | - | 1 | 1 | 1 | 1.4 | - | 101 | 101 | - | .35 | - | 35 |
| Unclassified (no data)----- | - | - | - | 1 | 1 | 1 | - | - | 10 | 10 | - | .35 | - | 4 |
| Total or average----- | 1 | - | 2 | 69 | 71 | 72 | - | 1,040 | 25 | 136 | .35 | 24.93 | 2,106 | 1,344 |
| Total or average, underground mines----- | 13 | 1 | 14 | 427 | 442 | 455 | - | 474 | 25 | 222 | 1.14 | 38.61 | 6,813 | 2,029 |
| OPEN PIT MINES | | | | | | | | | | | | | | |
| Amputation, enucleation----- | - | - | 11 | - | 11 | 11 | 3.9 | 221 | - | 221 | - | .70 | - | 155 |
| Asphyxiation----- | - | - | - | 1 | 1 | 1 | .4 | - | 6 | 6 | - | .06 | - | (2) |
| Crushing, contusion, bruise----- | 1 | - | 2 | 71 | 73 | 74 | 26.3 | 240 | 12 | 99 | .06 | 4.64 | 381 | 86 |
| Burn, scald (except chemical)----- | - | - | - | 7 | 7 | 7 | 2.5 | - | 10 | 10 | - | .44 | - | 5 |
| Radiation, radiating substance----- | - | - | - | 2 | 2 | 2 | .7 | - | 4 | 4 | - | .13 | - | (2) |
| Cut, laceration, puncture----- | 1 | - | - | 32 | 32 | 33 | 11.7 | - | 10 | 192 | .06 | 2.03 | 381 | 21 |
| Electric shock----- | 3 | - | - | - | - | 3 | 1.1 | - | - | 6,000 | .19 | - | 1,143 | - |
| Foreign body in eye----- | - | - | - | 10 | 10 | 10 | 3.6 | - | 4 | 4 | - | .64 | - | 3 |
| Fracture----- | - | - | 1 | 23 | 24 | 24 | 8.5 | 1,200 | 44 | 92 | - | 1.52 | - | 141 |
| Hernia (inguinal)----- | - | - | 4 | 2 | 6 | 6 | 2.1 | 50 | 50 | 50 | - | .38 | - | 19 |
| Poisoning (systemic)----- | - | - | - | 1 | 1 | 1 | .4 | - | 1 | 1 | - | .06 | - | (2) |
| Strain, sprain, dislocation----- | - | - | 2 | 104 | 106 | 106 | 37.7 | 154 | 23 | 25 | - | 6.73 | - | 169 |
| Hernia (except inguinal)----- | - | - | 1 | 1 | 2 | 2 | .7 | 600 | 4 | 302 | - | .13 | - | 38 |
| Other, not elsewhere classified----- | - | - | - | 1 | 1 | 1 | .4 | - | 11 | 11 | - | .06 | - | 1 |
| Unclassified (no data)----- | - | - | - | 22 | 22 | 22 | - | - | 17 | 17 | - | 1.40 | - | 24 |
| Total or average----- | 5 | - | 21 | 277 | 298 | 303 | - | 249 | 19 | 133 | .32 | 18.93 | 1,906 | 661 |
| OTHER SURFACE MINING | | | | | | | | | | | | | | |
| Asphyxiation----- | - | - | - | 2 | 2 | 2 | 3.5 | - | 10 | 10 | - | .38 | - | 4 |
| Crushing, contusion, bruise----- | - | - | - | 12 | 12 | 12 | 21.1 | - | 17 | 17 | - | 2.30 | - | 39 |
| Burn, scald (except chemical)----- | - | - | - | 5 | 5 | 5 | 8.8 | - | 26 | 26 | - | .96 | - | 25 |
| Chemical burn----- | - | - | - | 5 | 5 | 5 | 8.8 | - | 6 | 6 | - | .96 | - | 6 |
| Cut, laceration, puncture----- | - | - | - | 6 | 6 | 6 | 10.5 | - | 11 | 11 | - | 1.15 | - | 12 |
| Electric shock----- | - | - | - | 1 | 1 | 1 | 1.8 | - | 36 | 36 | - | .19 | - | 7 |
| Fracture----- | - | - | - | 10 | 10 | 10 | 17.5 | - | 55 | 55 | - | 1.91 | - | 105 |

¹ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 374; for surface, 71; for open pit, 281; for other surface mining, 57; and for mills, 1,513. Distribution percentages may not add to 100.0 because of independent rounding.

² Less than 0.5.

TABLE A-5. - Injuries, distribution, average severity by degree, and injury rates at nonmetal mines and mills in the United States, by general work location and nature of injury, 1970 - Continued.

| General work location and nature of injury | Injuries | | | | | | Percent-age distribution of all injuries y | Average severity | | | Frequency rates per million man-hours | | Severity rates per million man-hours | | | | | | | | | | |
|---|----------|-----------|---------|-----------------|--------------|-------------------|---|------------------|--------------|-------|---------------------------------------|-------|--------------------------------------|-------|--|--|--|--|--|--|--|--|--|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | | Temporary total | All injuries | Fatal | Non-fatal | Fatal | Non-fatal | | | | | | | | | | |
| | | Permanent | | Temporary total | | | | | | | | | | | | | | | | | | | |
| | | Total | Partial | | | | | | | | | | | | | | | | | | | | |
| OTHER SURFACE MINING - Continued | | | | | | | | | | | | | | | | | | | | | | | |
| Poisoning (systemic)----- | - | - | - | 1 | 1 | 1 | 1.8 | - | 3 | - | 0.19 | - | 1 | | | | | | | | | | |
| Strain, sprain, dislocation----- | - | - | - | 15 | 15 | 15 | 26.3 | - | 19 | 19 | 2.87 | - | 55 | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 2 | 2 | 2 | - | - | 17 | 17 | .38 | - | 7 | | | | | | | | | | |
| Total or average----- | - | - | - | 59 | 59 | 59 | - | - | 23 | 23 | - | 11.30 | - | 261 | | | | | | | | | |
| Total or average, mining----- | 18 | 1 | 35 | 763 | 799 | 817 | - | 339 | 22 | 175 | 0.56 | 24.65 | 3,332 | 1,080 | | | | | | | | | |
| MILLS | | | | | | | | | | | | | | | | | | | | | | | |
| Amputation, enucleation----- | 1 | - | 34 | - | 34 | 35 | 2.3 | 885 | - | 1,031 | .02 | .55 | 96 | 483 | | | | | | | | | |
| Asphyxiation----- | 6 | - | - | 5 | 5 | 11 | .7 | - | 11 | 3,278 | .10 | .08 | 578 | 1 | | | | | | | | | |
| Crushing, contusion, bruise----- | 2 | - | - | 374 | 374 | 376 | 24.9 | - | 13 | 44 | .03 | 6.00 | 193 | 76 | | | | | | | | | |
| Burn, scald (except chemical)----- | - | - | 1 | 54 | 55 | 55 | 3.6 | 300 | 14 | 19 | - | .88 | - | 17 | | | | | | | | | |
| Chemical burn----- | - | - | - | 17 | 17 | 17 | 1.1 | - | 13 | 13 | - | .27 | - | 3 | | | | | | | | | |
| Radiation, radiating substance----- | - | - | - | 10 | 10 | 10 | .7 | - | 2 | 2 | - | .16 | - | (2) | | | | | | | | | |
| Cut, laceration, puncture----- | - | - | - | 167 | 167 | 167 | 11.0 | - | 13 | 13 | - | 2.68 | - | 34 | | | | | | | | | |
| Dermatitis----- | - | - | - | 3 | 3 | 3 | .2 | - | 9 | 9 | - | .05 | - | (2) | | | | | | | | | |
| Electric shock----- | - | - | - | 1 | 1 | 1 | .1 | - | 29 | 29 | - | .02 | - | (2) | | | | | | | | | |
| Foreign body in eye----- | - | - | - | 56 | 56 | 56 | 3.7 | - | 4 | 4 | - | .90 | - | 4 | | | | | | | | | |
| Fracture----- | 1 | - | 5 | 173 | 178 | 179 | 11.8 | 546 | 50 | 97 | .02 | 2.86 | 96 | 181 | | | | | | | | | |
| Heat exhaustion, sunstroke----- | - | - | - | 3 | 3 | 3 | .2 | - | 1 | 1 | - | .05 | - | (2) | | | | | | | | | |
| Hernia (inguinal)----- | - | - | 9 | 20 | 29 | 29 | 1.9 | 50 | 50 | 50 | - | .47 | - | 23 | | | | | | | | | |
| Poisoning (systemic)----- | - | - | - | 4 | 4 | 4 | .3 | - | 4 | 4 | - | .06 | - | (2) | | | | | | | | | |
| Strain, sprain, dislocation----- | - | - | 5 | 540 | 545 | 545 | 36.0 | 580 | 19 | 24 | - | 8.75 | - | 209 | | | | | | | | | |
| Silicosis----- | - | 1 | - | - | 1 | 1 | .1 | - | - | 6,000 | - | .02 | - | 96 | | | | | | | | | |
| Pneumoconiosis (except silicosis)----- | - | - | - | 1 | 1 | 1 | .1 | - | 12 | 12 | - | .02 | - | (2) | | | | | | | | | |
| Concussion (cerebral)----- | - | - | - | 5 | 5 | 5 | .3 | - | 38 | 38 | - | .08 | - | 3 | | | | | | | | | |
| Hernia (except inguinal)----- | - | - | 2 | 4 | 6 | 6 | .4 | 122 | 132 | 129 | - | .10 | - | 12 | | | | | | | | | |
| Freezing, frostbite, etc.----- | - | - | - | 1 | 1 | 1 | .1 | - | 14 | 14 | - | .02 | - | (2) | | | | | | | | | |
| Inflammation or irritation of joints, tendons, muscles----- | - | - | - | 8 | 8 | 8 | .5 | - | 9 | 9 | - | .13 | - | 1 | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 92 | 92 | 92 | - | - | 20 | 20 | - | 1.48 | - | 30 | | | | | | | | | |
| Total or average, mills----- | 10 | 1 | 56 | 1,538 | 1,595 | 1,605 | - | 656 | 20 | 83 | .16 | 25.60 | 963 | 1,177 | | | | | | | | | |
| Grand total or average----- | 28 | 2 | 91 | 2,301 | 2,394 | 2,422 | - | 534 | 21 | 114 | .30 | 25.28 | 1,774 | 1,143 | | | | | | | | | |

y Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 374; for surface, 71; for open pit, 281; for other surface mining, 57; and for mills, 1,513. Distribution percentages may not add to 100.0 because of independent rounding.

z Less than 0.5.

TABLE A-6. - Injury experience and worktime data on nonmetal mines and mills in the United States, by general work location and employment size group, 1970

| General work location and employment size group | | Injuries | | | Frequency rates per million man-hours | | | Severity rates per million man-hours | | | Man-days worked | | | Man-hours worked | |
|--|----|----------|----------|-------|--|----------|--------|---|----------|--------|----------------------|------------------------------------|---------------------------|---------------------|-----------|
| | | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Active operations | Average men working daily | Average days active | Man-days worked | |
| Underground mines (includes surface work): | | | | | | | | | | | | | | | |
| 1-4----- | - | 5 | 5 | 5 | 29.35 | 29.35 | 58.71 | 3,821 | 3,821 | 4,22 | 128 | 162 | 20,757 | 170,374 | |
| 5-9----- | 1 | 12 | 13 | 2,47 | 29.64 | 32.11 | 43.82 | 9,07 | 15,727 | 33 | 221 | 226 | 49,949 | 404,834 | |
| 10-19----- | 2 | 41 | 43 | 1,02 | 41.83 | 42.42 | 42.42 | 1,172 | 1,341 | 33 | 475 | 258 | 122,487 | 1,485,122 | |
| 20-34----- | - | 1 | 59 | 60 | 61.19 | 61.19 | 61.19 | 9,619 | 15,738 | 18 | 457 | 265 | 121,131 | 980,889 | |
| 35-49----- | - | 1 | 25 | 26 | 1.37 | 34.14 | 35.51 | 2,176 | 3,790 | 7 | 316 | 298 | 732,257 | 732,257 | |
| 50-99----- | - | 4 | 77 | 81 | 1.62 | 31.22 | 32.84 | 9,732 | 1,187 | 10,919 | 16 | 1,064 | 288 | 306,170 | 2,466,180 |
| 100-149----- | - | 4 | 78 | 82 | 2.24 | 45.83 | 13,413 | 2,060 | 1,473 | 6 | 750 | 306 | 287,758 | 1,789,281 | |
| 150-249----- | - | 1 | 106 | 106 | 4.58 | 45.68 | 1,262 | 1,262 | 1,262 | 5 | 938 | 306 | 287,388 | 2,310,632 | |
| 250 or more----- | - | 1 | 39 | 39 | - | 26.30 | 24.30 | - | 4,84 | 2 | 612 | 326 | 199,587 | 1,606,360 | |
| Total or average----- | 13 | 442 | 455 | 1.14 | 38.61 | 39.74 | 6,813 | 2,029 | 8,842 | 162 | 4,561 | 287 | 1,426,242 | 11,449,019 | |
| Open pit mines: | | | | | | | | | | | | | | | |
| 1-4----- | - | 1 | 49 | 50 | .30 | 14.61 | 14.91 | 1,789 | 803 | 2,592 | 1,315 | 2,341 | 174 | 407,378 | 3,351,465 |
| 5-9----- | 1 | 58 | 59 | .43 | 24.94 | 25.37 | 25.80 | 896 | 3,476 | 234 | 1,478 | 282,744 | 2,325,368 | | |
| 10-19----- | - | 56 | 56 | - | 21.38 | 21.38 | 21.38 | 454 | 454 | 92 | 1,238 | 257 | 318,357 | 2,619,357 | |
| 20-34----- | 2 | 41 | 43 | 1.24 | 25.47 | 26.71 | 7,455 | 554 | 8,009 | 29 | 255 | 271 | 145,962 | 1,609,915 | |
| 35-49----- | - | 21 | 21 | - | 17.72 | 17.72 | 17.72 | 1,689 | 1,689 | 12 | 485 | 301 | 145,991 | 1,183,058 | |
| 50-99----- | - | 1 | 37 | 38 | .37 | 13.65 | 14.02 | 2,124 | 389 | 2,603 | 15 | 1,090 | 310 | 202,192 | 2,710,292 |
| 100-149----- | - | 36 | 36 | - | 22.24 | 22.24 | - | 308 | 308 | 6 | 705 | 287 | 202,472 | 1,618,380 | |
| 150-249----- | - | - | - | - | - | - | - | - | - | 1 | 170 | 236 | 40,063 | 320,302 | |
| Total or average----- | 5 | 298 | 303 | .32 | 18.93 | 19.25 | 1,906 | 661 | 2,567 | 1,704 | 8,278 | 233 | 1,931,761 | 15,742,537 | |
| Other surface mining: | | | | | | | | | | | | | | | |
| 1-4----- | - | 1 | 1 | 1 | 2.67 | 2.47 | 2.47 | 30 | 30 | 112 | 164 | 306 | 50,171 | 404,548 | |
| 5-9----- | - | 1 | 1 | 1 | 3.34 | 3.34 | 3.34 | - | - | 12 | 79 | 269 | 21,247 | 170,744 | |
| 10-19----- | - | 1 | 1 | 1 | 7.79 | 7.79 | 7.79 | 13 | 13 | 11 | 134 | 279 | 36,366 | 299,233 | |
| 20-34----- | - | 17 | 17 | - | 40.27 | 40.27 | 40.27 | 171 | 171 | 2 | 47 | 342 | 16,055 | 1,28,440 | |
| 35-49----- | - | 13 | 13 | - | 16.53 | 16.53 | 16.53 | 604 | 604 | 4 | 155 | 340 | 32,766 | 42,126 | |
| 50-99----- | - | 12 | 12 | - | 7.34 | 7.34 | 7.34 | 280 | 280 | 5 | 339 | 290 | 38,291 | 786,330 | |
| 100-149----- | - | 14 | 14 | - | 10.17 | 10.17 | 10.17 | - | - | 5 | 641 | 319 | 204,263 | 1,634,103 | |
| 150-249----- | - | - | - | - | - | - | - | 327 | 327 | 2 | 338 | 320 | 172,056 | 1,376,552 | |
| Total or average----- | - | 59 | 59 | - | 11.30 | 11.30 | - | 261 | 261 | 153 | 2,097 | 311 | 652,215 | 5,221,996 | |
| Total or average, mining----- | 18 | 799 | 817 | .56 | 24.65 | 25.21 | 3,332 | 1,080 | 4,412 | 2,019 | 15,336 | 261 | 4,010,218 | 32,413,652 | |
| Mills: | | | | | | | | | | | | | | | |
| 1-4----- | 2 | 25 | 27 | 2.30 | 28.69 | 30.99 | 13,771 | 5,838 | 19,609 | 233 | 698 | 215 | 107,074 | 871,369 | |
| 5-9----- | - | 36 | - | - | 24.24 | 24.24 | - | 4,171 | 4,171 | 109 | 258 | 258 | 182,361 | 1,485,122 | |
| 10-19----- | - | 135 | 135 | - | 31.54 | 31.54 | - | 1,125 | 1,125 | 137 | 1,367 | 268 | 528,986 | 4,279,709 | |
| 20-34----- | 3 | 261 | 261 | .36 | 31.55 | 31.55 | - | 2,176 | 3,754 | 141 | 3,693 | 279 | 1,031,044 | 8,272,365 | |
| 35-49----- | 2 | 249 | 251 | .29 | 36.07 | 36.36 | 1,738 | 1,310 | 3,048 | 74 | 3,046 | 284 | 865,716 | 6,903,529 | |
| 50-99----- | 2 | 442 | 444 | .11 | 24.56 | 24.56 | 667 | 1,109 | 1,776 | 111 | 7,655 | 292 | 2,234,096 | 17,993,910 | |
| 100-149----- | 1 | 103 | 104 | .12 | 12.11 | 12.23 | 706 | 305 | 1,011 | 29 | 3,509 | 304 | 1,065,106 | 8,502,319 | |
| 150-249----- | - | 170 | 170 | .17 | 23.63 | 23.63 | - | 563 | 563 | 17 | 3,226 | 279 | 899,188 | 7,192,783 | |
| 250 or more----- | - | 174 | 174 | .17 | 25.62 | 25.62 | - | 1,251 | 1,251 | 8 | 2,813 | 299 | 840,883 | 6,791,362 | |
| Total or average, mills----- | 10 | 1,595 | 1,605 | .16 | 25.60 | 25.77 | 963 | 1,177 | 2,140 | 859 | 27,125 | 286 | 7,752,454 | 62,293,048 | |
| Grand total or average----- | 28 | 2,394 | 2,422 | .30 | 25.28 | 25.57 | 1,774 | 2,917 | 2,878 | 4,461 | 277 | 11,762,672 | 94,706,700 | | |

TABLE A-7. - Injuries by degree at nonmetal mines and mills in the United States, by State ^y, 1970

| State | Injuries | | | | | | | | | | | | |
|---------------------|----------|-----------|---------|-------------------------|-----------------|-------|----------|-----------|-------------------------|--------------|---------------|-----------------|--------------|
| | At mines | | | | | | | At mills | | | | | |
| | Fatal | Nonfatal | | | All injuries | Fatal | Nonfatal | | | All injuries | | | All injuries |
| | | Permanent | | Tempo- rary total | | | Total | Permanent | Tempo- rary total | Total | non- fatal | | |
| | | Total | Partial | | Total non-fatal | | | Total | Partial | | | Total non-fatal | |
| Alabama----- | 1 | - | - | 1 | 1 | 2 | - | - | 3 | 14 | 17 | 17 | |
| Arizona----- | - | - | - | 2 | 2 | 2 | - | - | - | 3 | 3 | 3 | |
| Arkansas----- | - | - | - | 19 | 19 | 19 | - | - | - | 37 | 37 | 37 | |
| California----- | 1 | - | 1 | 55 | 56 | 57 | - | - | 6 | 207 | 213 | 213 | |
| Colorado----- | 1 | - | 6 | 27 | 33 | 34 | 1 | - | 1 | 18 | 19 | 20 | |
| Connecticut----- | - | - | 2 | 1 | 3 | 3 | 1 | - | - | 3 | 3 | 4 | |
| Florida----- | - | - | 2 | 10 | 12 | 12 | 1 | - | 2 | 29 | 31 | 32 | |
| Georgia----- | 1 | - | 3 | 48 | 51 | 52 | 1 | - | 6 | 171 | 177 | 178 | |
| Hawaii----- | - | - | - | 3 | 3 | 3 | - | - | - | 2 | 2 | 2 | |
| Idaho----- | 1 | - | - | 4 | 4 | 5 | - | - | - | 8 | 8 | 8 | |
| Illinois----- | - | 1 | 1 | 34 | 36 | 36 | - | - | 2 | 46 | 48 | 48 | |
| Indiana----- | - | - | - | 1 | 1 | 1 | - | - | - | 11 | 11 | 11 | |
| Iowa----- | - | - | - | 6 | 6 | 6 | - | - | 1 | 36 | 37 | 37 | |
| Kansas----- | - | - | - | 5 | 5 | 5 | - | - | - | 55 | 55 | 55 | |
| Kentucky----- | - | - | 1 | 7 | 8 | 8 | - | - | 1 | 7 | 8 | 8 | |
| Louisiana----- | 5 | - | - | 55 | 55 | 60 | 1 | - | 2 | 40 | 42 | 43 | |
| Maine----- | - | - | - | 1 | 1 | 1 | - | - | - | 2 | 2 | 2 | |
| Maryland----- | - | - | - | 1 | 1 | 1 | - | - | - | 15 | 15 | 15 | |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 | |
| Michigan----- | 2 | - | - | 19 | 19 | 21 | - | - | 1 | 67 | 68 | 68 | |
| Minnesota----- | - | - | - | - | - | - | - | - | - | 11 | 11 | 11 | |
| Mississippi----- | - | - | - | 5 | 5 | 5 | - | - | - | 28 | 28 | 28 | |
| Missouri----- | - | - | 1 | 31 | 32 | 32 | - | - | 3 | 27 | 30 | 30 | |
| Montana----- | - | - | - | 10 | 10 | 10 | - | - | 1 | 17 | 18 | 18 | |
| Nevada----- | - | - | 3 | 5 | 8 | 8 | - | - | 3 | 40 | 43 | 43 | |
| New Jersey----- | - | - | - | 1 | 1 | 1 | - | - | 1 | 24 | 25 | 25 | |
| New Mexico----- | 2 | - | 3 | 144 | 147 | 149 | - | - | 2 | 36 | 38 | 38 | |
| New York----- | 1 | - | - | 55 | 55 | 56 | - | - | 4 | 62 | 66 | 66 | |
| North Carolina----- | - | - | 2 | 9 | 11 | 11 | 1 | 1 | 3 | 86 | 90 | 91 | |
| Ohio----- | - | - | 3 | 49 | 52 | 52 | - | - | 1 | 60 | 61 | 61 | |
| Oklahoma----- | - | - | 1 | 2 | 3 | 3 | 1 | - | 1 | 21 | 22 | 23 | |
| Oregon----- | - | - | - | 3 | 3 | 3 | - | - | - | 1 | 1 | 1 | |
| Pennsylvania----- | - | - | - | 16 | 16 | 16 | - | - | 3 | 58 | 61 | 61 | |
| South Carolina----- | - | - | - | 1 | 1 | 1 | - | - | 2 | 60 | 62 | 62 | |
| South Dakota----- | - | - | - | 4 | 4 | 4 | - | - | 1 | 9 | 10 | 10 | |
| Tennessee----- | - | - | - | 16 | 16 | 16 | - | - | 1 | 22 | 23 | 23 | |
| Texas----- | 2 | - | - | 38 | 38 | 40 | 3 | - | 1 | 108 | 109 | 112 | |
| Utah----- | 1 | - | 3 | 52 | 55 | 56 | - | - | 1 | 21 | 22 | 22 | |
| Vermont----- | - | - | - | 10 | 10 | 10 | - | - | - | 12 | 12 | 12 | |
| Virginia----- | - | - | 1 | 1 | 2 | 2 | - | - | 3 | 29 | 32 | 32 | |
| West Virginia----- | - | - | - | 3 | 3 | 3 | - | - | - | 4 | 4 | 4 | |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | |
| Wyoming----- | - | - | 2 | 9 | 11 | 11 | - | - | - | 23 | 23 | 23 | |
| Total----- | 18 | 1 | 35 | 763 | 799 | 817 | 10 | 1 | 56 | 1,538 | 1,595 | 1,605 | |

^y No injuries were reported at nonmetal mines and mills for States not listed.

TABLE A-8. - Fatal injuries by general work location and main cause at nonmetal mines and mills in the United States, by State ^j, 1970

| State | Underground mines | | | Open pit mines | | | Mills | | | Grand total |
|---------------------|-------------------|-----------------|---------|-----------------------|-----------|---------|--------------|-----------|---------|-------------|
| | Underground | Shaft and slope | Surface | Total, open pit mines | Machinery | Haulage | Total, mills | Machinery | Haulage | |
| Alabama----- | - | - | - | - | - | - | - | - | - | 1 |
| California----- | - | - | - | - | - | - | - | - | - | 1 |
| Colorado----- | - | - | - | - | - | - | - | - | - | 2 |
| Connecticut----- | - | - | - | - | - | - | - | - | - | 1 |
| Florida----- | - | - | - | - | - | - | - | - | - | 1 |
| Georgia----- | - | - | - | - | - | - | - | - | - | 2 |
| Idaho----- | - | - | - | - | - | - | - | - | - | 1 |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 1 |
| Michigan----- | 4 | - | - | - | - | - | - | - | - | 6 |
| Minnesota----- | - | - | - | - | - | - | - | - | - | 2 |
| New Mexico----- | - | - | - | - | - | - | - | - | - | 2 |
| New York----- | 1 | - | - | - | - | - | - | - | - | 1 |
| North Carolina----- | - | - | - | - | - | - | - | - | - | 1 |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | 1 |
| Texas----- | - | - | - | - | - | - | - | - | - | 3 |
| Utah----- | - | - | - | - | - | - | - | - | - | 1 |
| Total----- | 6 | 2 | 1 | 10 | 2 | 2 | 1 | 1 | 3 | 10 |
| | | | | | 5 | 18 | 2 | 4 | 1 | 28 |

^j No fatal injuries were reported at nonmetal mines and mills for States not listed.

TABLE A-9. - Nonfatal injuries by general work location and main cause at nonmetal mines and mills in the United States, by State, 1970

| State | Underground mines | | Shaft and slope | | Surface | |
|---------------------|-------------------|---|-----------------|----|---------|--|
| | Underground | | | | | |
| Alabama----- | - | | | | | |
| Arizona----- | 2 | | | | | |
| Arkansas----- | 1 | | | | | |
| California----- | 2 | | | | | |
| Colorado----- | 5 | | | | | |
| Connecticut----- | 1 | | | | | |
| Florida----- | 1 | | | | | |
| Georgia----- | 1 | | | | | |
| Hawaii----- | - | | | | | |
| Idaho----- | 1 | | | | | |
| Illinois----- | 8 | | | | | |
| Indiana----- | 1 | | | | | |
| Iowa----- | 1 | | | | | |
| Kansas----- | 1 | | | | | |
| Kentucky----- | 2 | | | | | |
| Louisiana----- | 1 | | | | | |
| Maine----- | 1 | | | | | |
| Maryland----- | - | | | | | |
| Massachusetts----- | 2 | | | | | |
| Michigan----- | 4 | | | | | |
| Minnesota----- | 3 | | | | | |
| Mississippi----- | 9 | | | | | |
| Missouri----- | 1 | | | | | |
| Oklahoma----- | 1 | | | | | |
| Montana----- | 1 | | | | | |
| Nevada----- | 1 | | | | | |
| Oregon----- | 1 | | | | | |
| Pennsylvania----- | 1 | | | | | |
| New Jersey----- | 3 | | | | | |
| New Mexico----- | 11 | | | | | |
| New York----- | 3 | | | | | |
| North Carolina----- | 1 | | | | | |
| Ohio----- | 9 | | | | | |
| Tennessee----- | 1 | | | | | |
| Texas----- | 1 | | | | | |
| Utah----- | 2 | | | | | |
| Vermont----- | 1 | | | | | |
| Virginia----- | 1 | | | | | |
| West Virginia----- | 1 | | | | | |
| Wisconsin----- | - | | | | | |
| Wyoming----- | - | | | | | |
| Total----- | 41 | 5 | 10 | 53 | 115 | 10 8 6 59 1 9 41 9 367 1 1 1 4 371 1 20 22 3 - 4 1 11 6 3 71 |

¹ No nonfatal injuries were reported at nonmetal mines and mills for the States not listed.

| | | | | | | |
|--|--|--|--|--|--|--|
| Total, underground mines | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Electricity | | | | | | |
| Falls of roof or back | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Electricity | | | | | | |
| Falls of roof or back | | | | | | |
| Total, underground plus total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground mines | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, underground | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, surface | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |
| Handtools | | | | | | |
| Striking or bumping against objects | | | | | | |
| Sharp or loose objects | | | | | | |
| Machine injury | | | | | | |
| Miscellaneous causes | | | | | | |
| Total, shaft and slope | | | | | | |
| Slipping or falling material or objects | | | | | | |
| Slipping or falls of persons | | | | | | |

TABLE A-9. - Nonfatal injuries by general work location and main cause at nonmetal mines and mills in the United States, by State, Y, 1970 - Continued

| State | Open pit mines | Other surface mining | | Mills | Grand total |
|---------------------|----------------|----------------------|-----------------------------|--|-------------|
| | | Total, open pit | Total, other surface mining | | |
| Alabama----- | - | - | - | Machinery | 18 |
| Arizona----- | - | - | - | Electricity | 5 |
| Arkansas----- | - | - | - | Fires | 37 |
| California----- | - | - | - | Filters or dust collection from smoldering | 56 |
| Colorado----- | - | - | - | Filters or flame or smoke | 269 |
| Connecticut----- | - | - | - | Filters or flame or smoke | 19 |
| Florida----- | - | - | - | Filters or flame or smoke | 52 |
| Georgia----- | - | - | - | Filters or flame or smoke | 3 |
| Hawaii----- | - | - | - | Filters or flame or smoke | 6 |
| Idaho----- | - | - | - | Filters or flame or smoke | 3 |
| Illinois----- | - | - | - | Filters or flame or smoke | 3 |
| Indiana----- | - | - | - | Filters or flame or smoke | 6 |
| Iowa----- | - | - | - | Filters or flame or smoke | 1 |
| Kansas----- | - | - | - | Filters or flame or smoke | 1 |
| Kentucky----- | - | - | - | Filters or flame or smoke | 1 |
| Louisiana----- | - | - | - | Filters or flame or smoke | 1 |
| Maine----- | - | - | - | Filters or flame or smoke | 1 |
| Maryland----- | - | - | - | Filters or flame or smoke | 1 |
| Massachusetts----- | - | - | - | Filters or flame or smoke | 1 |
| Michigan----- | - | - | - | Filters or flame or smoke | 1 |
| Minnesota----- | - | - | - | Filters or flame or smoke | 1 |
| Mississippi----- | - | - | - | Filters or flame or smoke | 1 |
| Missouri----- | - | - | - | Filters or flame or smoke | 1 |
| Montana----- | - | - | - | Filters or flame or smoke | 1 |
| Nevada----- | - | - | - | Filters or flame or smoke | 1 |
| New Jersey----- | - | - | - | Filters or flame or smoke | 1 |
| New Mexico----- | - | - | - | Filters or flame or smoke | 1 |
| New York----- | - | - | - | Filters or flame or smoke | 1 |
| North Carolina----- | - | - | - | Filters or flame or smoke | 1 |
| Ohio----- | - | - | - | Filters or flame or smoke | 1 |
| Oklahoma----- | - | - | - | Filters or flame or smoke | 1 |
| Oregon----- | - | - | - | Filters or flame or smoke | 1 |
| Pennsylvania----- | - | - | - | Filters or flame or smoke | 1 |
| South Carolina----- | - | - | - | Filters or flame or smoke | 1 |
| South Dakota----- | - | - | - | Filters or flame or smoke | 1 |
| Tennessee----- | - | - | - | Filters or flame or smoke | 1 |
| Texas----- | - | - | - | Filters or flame or smoke | 1 |
| Utah----- | - | - | - | Filters or flame or smoke | 1 |
| Vermont----- | - | - | - | Filters or flame or smoke | 1 |
| Virginia----- | - | - | - | Filters or flame or smoke | 1 |
| West Virginia----- | - | - | - | Filters or flame or smoke | 1 |
| Wisconsin----- | - | - | - | Filters or flame or smoke | 1 |
| Wyoming----- | - | - | - | Filters or flame or smoke | 1 |
| Total----- | 1 | 11 | 53 | 65 | 2,394 |
| | | | | | 1,595 |
| | | | | | 1,09 |
| | | | | | 2 |

³ No nonfatal injuries were reported at nonmetal mines and mills for the States not listed.

TABLE A-10. - Injuries by general work location and main cause at nonmetal mines and mills in the United States, by degree of injury and mineral industry, 1970

| Degree of injury and mineral industry | Underground mines | | | | | | | | | | | | | | | | | Total, underground plus total, shaft and slope | | | | |
|---------------------------------------|-----------------------|-----------------------|--|---------------------------|-------------------|-----------|--|-------------------------------------|-----------|------------|-----------------|-----------|---------------------------------|----------------------|--------------------|-----------------------|--|--|-------------------------------------|----------|-----------|------------|
| | Underground | | | | | | | | | | Shaft and slope | | | | | | | | | | | |
| | Falls of roof or back | Falls of face or side | Sliding or falling material or objects | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Explosives | Electricity | Machinery | Fires or suffocation from fumes | Miscellaneous causes | Total, underground | Falls of roof or back | Sliding or falling material or objects | Slips or falls of persons | Striking or bumping against objects | Haulage | | |
| Fatal and nonfatal: | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | 5 | 2 | - | 6 | 4 | 1 | - | - | 4 | - | - | 1 | - | - | 23 | - | - | - | - | 23 | | |
| Gypsum----- | 1 | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - | 1 | 5 | - | - | - | - | 8 | | |
| Phosphate rock----- | 1 | - | - | 2 | 2 | - | - | - | 2 | - | - | 3 | - | 1 | 11 | - | - | - | - | 11 | | |
| Potash----- | 10 | - | 3 | 9 | 45 | 3 | 4 | 3 | 25 | - | 7 | 11 | 1 | 3 | 124 | - | - | - | - | 124 | | |
| Salt----- | 9 | 1 | 2 | 20 | 29 | 4 | 2 | 1 | 15 | - | 1 | 13 | - | 2 | 99 | - | - | - | - | 99 | | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Miscellaneous nonmetals-- | 21 | 2 | 5 | 16 | 34 | 2 | 1 | 2 | 15 | 1 | 1 | 13 | - | 2 | 115 | 1 | - | - | - | 3 | 118 | |
| Total----- | 47 | 5 | 10 | 53 | 115 | 10 | 8 | 6 | 61 | 1 | 9 | 42 | 1 | 9 | 377 | 1 | 2 | 1 | 1 | 1 | 6 | 383 |
| Fatal: | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | |
| Salt----- | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | 5 | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | |
| Miscellaneous nonmetals-- | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 2 | |
| Total----- | 6 | - | - | - | - | - | - | - | 2 | - | - | 1 | 1 | - | 10 | - | 2 | - | - | - | 2 | 12 |
| Permanent total: | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Miscellaneous nonmetals-- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | |
| Total----- | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | 1 | |
| Permanent partial: | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 2 | - | - | - | - | - | 2 | |
| Gypsum----- | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 1 | - | - | 4 | - | - | - | - | - | 4 | |
| Salt----- | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | |
| Sulfur----- | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | 4 | |
| Miscellaneous nonmetals-- | 1 | - | 1 | - | 1 | - | - | - | 1 | - | - | 1 | - | - | 4 | - | - | - | - | - | 4 | |
| Total----- | - | - | 1 | - | 4 | 1 | 1 | - | 3 | - | - | 2 | - | - | 12 | - | - | - | - | - | 12 | |
| Temporary total: | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | 5 | 2 | - | 6 | 4 | - | - | - | 3 | - | - | 1 | - | - | 21 | - | - | - | - | - | 21 | |
| Gypsum----- | 1 | - | - | - | - | 1 | - | - | - | - | - | 1 | - | 1 | 4 | - | - | - | - | - | 5 | |
| Phosphate rock----- | 1 | - | - | 2 | 2 | - | - | - | 1 | - | - | 3 | - | 1 | 10 | - | - | - | - | - | 10 | |
| Potash----- | 9 | - | 3 | 9 | 44 | 3 | 3 | 3 | 24 | - | 7 | 10 | - | 3 | 118 | - | - | - | - | - | 118 | |
| Salt----- | 5 | 1 | 2 | 20 | 28 | 4 | 2 | 1 | 15 | - | 1 | 12 | - | 2 | 93 | - | - | - | - | - | 93 | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Miscellaneous nonmetals-- | 20 | 2 | 4 | 16 | 33 | 2 | 1 | 2 | 12 | 1 | 1 | 12 | - | 2 | 108 | 1 | - | 1 | 1 | - | 3 | 111 |
| Total----- | 41 | 5 | 9 | 53 | 111 | 9 | 7 | 6 | 55 | 1 | 9 | 39 | - | 9 | 354 | 1 | - | 1 | 1 | 1 | 4 | 358 |

TABLE A-10. - Injuries by general work location and main cause at nonmetal mines and mills in the United States,
by degree of injury and mineral industry, 1970 - Continued

| Degree of injury and mineral industry | Underground mines - continued | | | | | | | | | | | | Open pit mines | | | | | | | | | | | | |
|--|---|---------------------------|-------------------|-----------|---|--|---------|-----------|----------------------|--------------------|-----------------------|---|---------------------------|-------------------|-----------|---|--|---------|-------------|-----------|---|------------------------------------|----------------------|-----------------|-----|
| | Surface | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sliding or falling material or objects | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Machinery | Miscellaneous causes | Total, underground | Falls of face or side | Sliding or falling material or objects | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Electricity | Machinery | Suffocation (no flame or smoldering) | Fires or suffocation from fires | Miscellaneous causes | Total, open pit | |
| Fatal and nonfatal: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | 2 | - | - | - | - | - | - | - | 2 | 25 | - | 3 | 26 | 33 | 15 | 7 | - | 27 | 4 | 28 | - | 1 | 7 | 151 |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | 8 | - | 2 | 2 | 2 | 2 | - | 1 | 6 | - | 2 | - | 1 | 7 | 7 |
| Phosphate rock----- | - | 10 | 9 | 2 | 2 | 2 | - | - | - | 11 | 1 | - | 5 | 5 | 2 | - | - | - | - | - | - | - | - | 2 | 26 |
| Potash----- | 1 | 7 | 8 | - | 2 | - | 4 | 1 | - | 29 | 153 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Salt----- | - | - | - | - | - | 4 | 4 | 3 | 2 | 26 | 125 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Sulfur----- | - | 1 | - | 5 | 1 | - | 1 | 3 | 3 | 1 | 15 | - | 8 | 8 | 20 | 26 | 8 | 1 | 18 | - | 14 | - | 1 | 5 | 116 |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total----- | 1 | 20 | 22 | 3 | 4 | 1 | 11 | 7 | 3 | 72 | 455 | 1 | 11 | 53 | 65 | 34 | 15 | 1 | 52 | 4 | 50 | 1 | 2 | 14 | 303 |
| Fatal: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | 1 | - | - | - | 5 |
| Permanent total: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Permanent partial: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | 3 | 2 | - |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | 1 | - | 1 |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |
| Potash----- | - | - | 1 | - | - | - | - | - | - | - | 1 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | 1 | 5 | - | 2 | 4 | - | - | 3 | - | - | - | - | - | 9 |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total----- | - | - | 1 | - | - | - | - | 1 | - | 2 | 14 | - | 2 | 1 | 7 | 1 | - | - | 6 | - | 4 | - | - | - | 21 |
| Temporary total: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | 2 | - | - | - | - | - | - | - | 2 | 23 | - | 3 | 26 | 32 | 14 | 7 | - | 24 | 1 | 25 | - | 1 | 7 | 140 |
| Gypsum----- | - | - | - | - | - | - | - | - | - | 5 | - | - | 2 | - | 2 | - | - | 1 | - | 1 | - | - | 6 | - | 6 |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | 10 | 1 | - | 4 | 3 | 2 | - | - | 5 | - | 3 | 1 | - | 2 | - | 21 |
| Potash----- | 1 | 10 | 8 | 2 | 2 | - | 4 | 1 | - | 28 | 146 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Salt----- | - | 7 | 8 | - | 2 | - | 4 | 3 | 2 | 26 | 119 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Miscellaneous nonmetals----- | - | 1 | 5 | 1 | - | 1 | 3 | 1 | 1 | 13 | 124 | - | 6 | 20 | 22 | 15 | 8 | 1 | 15 | - | 14 | - | 1 | 5 | 107 |
| Total----- | 1 | 20 | 21 | 3 | 4 | 1 | 11 | 5 | 3 | 69 | 427 | 1 | 9 | 52 | 58 | 33 | 15 | 1 | 45 | 1 | 45 | 1 | 2 | 14 | 277 |

TABLE A-10. - Injuries by general work location and main cause at nonmetal mines and mills in the United States,
by degree of injury and mineral industry, 1970 - Continued

| Degree of injury and mineral industry | | Other surface mining | | | | | | | | | | | | Mills | | | | | | | | | | | | | |
|---------------------------------------|---|--|---------------------------|-------------------|--|-------------------------------------|---------|-------------|-----------|--------------------------------------|----------------------|-----------------------------|--------------------------|--|---------------------------|-------------------|-----------|--|-------------------------------------|---------|-------------|-----------|--------------------------------------|---------------------------------|----------------------|--------------|--------------|
| | | Sliding or falling material or objects | Slips or falls of persons | Handling material | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Electricity | Machinery | Suffocation (no flame or smoldering) | Miscellaneous causes | Total, other surface mining | Total, mining activities | Sliding or falling material or objects | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Electricity | Machinery | Suffocation (no flame or smoldering) | Fires or suffocation from fires | Miscellaneous causes | Pneumoniosis | Total, mills |
| Fatal and nonfatal: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | 176 | 18 | 139 | 383 | 18 | 12 | 14 | 153 | 4 | 100 | 2 | 1 | 48 | 1 | 893 | 1,069 |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 2 | 4 | - | - | - | 1 | - | 1 | - | 1 | - | 9 | 24 | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | 37 | - | 2 | 8 | - | - | - | 2 | 1 | 2 | - | - | 2 | 17 | 54 | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | 153 | - | 8 | 12 | 1 | - | 1 | 3 | - | 3 | - | - | - | 28 | 181 | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | 1 | 129 | 4 | 44 | 97 | 7 | 4 | 2 | 28 | - | 24 | - | - | - | 351 | |
| Sulfur----- | 1 | 15 | 16 | 3 | 1 | 5 | 1 | 2 | 2 | 11 | 57 | 57 | - | - | - | - | - | - | 40 | 1 | 45 | 1 | - | - | - | 57 | |
| Miscellaneous nonmetals----- | - | - | 1 | - | - | - | - | - | - | - | 1 | 250 | 7 | 86 | 168 | 25 | 8 | 8 | 46 | 1 | 436 | - | - | - | - | 686 | |
| Total----- | 1 | 15 | 17 | 4 | 1 | 5 | 1 | 2 | 2 | 11 | 59 | 817 | 29 | 281 | 672 | 51 | 24 | 25 | 227 | 6 | 175 | 3 | 1 | 109 | 2 | 1,605 | 2,422 |
| Fatal: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 4 | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | 2 | | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | 1 | - | - | - | - | - | - | - | 6 | | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | 4 | | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | 18 | 2 | - | 4 | - | - | - | 1 | - | 3 | - | - | - | - | 10 | |
| Permanent total: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | | |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | | |
| Permanent partial: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 4 | 9 | 1 | - | - | 7 | - | 9 | - | - | - | - | 30 | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | 4 | | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | | |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 5 | - | - | - | - | 3 | 11 | - | - | - | - | - | 3 | |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | 35 | - | 5 | 15 | 1 | - | - | 10 | 1 | 24 | - | - | - | - | 56 | |
| Temporary total: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | 163 | 18 | 135 | 373 | 17 | 12 | 14 | 146 | 4 | 88 | 2 | 1 | 48 | 1 | 859 | 1,022 |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 2 | 4 | - | - | - | 1 | - | 1 | - | - | 1 | 9 | 20 | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | 31 | - | 1 | 6 | - | - | - | 2 | - | 1 | - | - | 2 | 12 | 43 | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | 146 | - | 8 | 12 | 1 | - | 1 | 3 | - | 2 | - | - | 27 | 173 | | |
| Salt----- | - | - | - | 1 | 5 | 1 | 2 | 2 | 11 | 57 | 57 | - | 1 | 123 | 4 | 44 | 96 | 7 | 4 | 2 | 28 | - | 22 | - | 12 | 219 | 342 |
| Sulfur----- | 1 | 15 | 16 | 3 | 1 | 5 | 1 | 2 | 2 | 11 | 57 | 57 | - | 1 | 232 | 5 | 86 | 162 | 25 | 8 | 8 | 36 | 1 | 34 | 1 | - | 57 |
| Miscellaneous nonmetals----- | - | - | 1 | - | - | - | - | - | - | - | 1 | 232 | 5 | 86 | 162 | 25 | 8 | 8 | 36 | 1 | 34 | 1 | - | 412 | 644 | | |
| Total----- | 1 | 15 | 17 | 4 | 1 | 5 | 1 | 2 | 2 | 11 | 59 | 763 | 27 | 276 | 653 | 50 | 24 | 25 | 216 | 5 | 148 | 3 | 1 | 109 | 1 | 1,538 | 2,301 |

TABLE A-11. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by mineral industry, 1970

| Mineral industry | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|-------------------|----------------------|-------------------------|-------------------------|-------------------|-------------|-------------------|----------------|----------------------|-------------------------|-------------------------|-------------|
| | Underground mines | | | Total mining activities | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Mills | Grand total | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Mills |
| Injuries | | | | | | | | | | | | |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Clay----- | - | 2 | 2 | 4 | 4 | 4 | 8 | 2 | 25 | 147 | - | 172 |
| Gypsum----- | 2 | - | 2 | - | 2 | 2 | 6 | 6 | 13 | 9 | 889 | 1,061 |
| Phosphate rock----- | 1 | - | 1 | 1 | 1 | 3 | 10 | 10 | 25 | - | 151 | 22 |
| Potash----- | 2 | - | 2 | - | 2 | 2 | 122 | 29 | 151 | - | 124 | 51 |
| Salt----- | 5 | - | 5 | - | 5 | 1 | 6 | 94 | 26 | 3 | 221 | 179 |
| Sulfur----- | - | 1 | 1 | - | - | 1 | - | 1 | - | 57 | 57 | 345 |
| Miscellaneous nonmetals----- | 2 | 1 | 3 | - | 3 | 4 | 7 | 116 | 14 | 116 | 1 | 632 |
| Total----- | 12 | 1 | 13 | 5 | - | 18 | 10 | 28 | 371 | 71 | 442 | 2,394 |
| Clay----- | - | 2 | 2 | 0.60 | - | 0.56 | 0.14 | 0.23 | 44.88 | 28.46 | 42.90 | 22.21 |
| Gypsum----- | 3.46 | - | 2.64 | .22 | - | 1.08 | .41 | .39 | 10.38 | - | 7.92 | 6.39 |
| Phosphate rock----- | 4.76 | - | 3.83 | - | - | .19 | .29 | .57 | 67.57 | 38.34 | 54.41 | 7.02 |
| Potash----- | .77 | - | .54 | - | - | .34 | .36 | .48 | 47.08 | 41.11 | - | 7.17 |
| Salt----- | 2.12 | - | 1.51 | - | - | 1.25 | .13 | .50 | 39.91 | 27.36 | 36.30 | 40.39 |
| Sulfur----- | - | 1.94 | 1.05 | - | - | .46 | .25 | .31 | 49.28 | 27.16 | 45.31 | 59.88 |
| Miscellaneous nonmetals----- | .85 | - | 1.14 | .32 | - | .56 | .16 | .30 | 43.14 | 24.33 | 38.61 | 13.16 |
| Combined rate----- | 1.40 | .35 | 1.14 | .32 | - | .56 | .16 | .30 | 18.93 | 11.30 | 24.65 | 25.60 |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Clay----- | - | 3 | 3.627 | - | 3,333 | 869 | 1,378 | 2,207 | 213 | 1,966 | 626 | - |
| Gypsum----- | 20.769 | - | 15.845 | - | 6,476 | 1,130 | 2,320 | 931 | - | 710 | 600 | - |
| Phosphate rock----- | 28.543 | - | 23,001 | 1,299 | 2,459 | 1,130 | 1,767 | 2,198 | - | 1,771 | 203 | - |
| Potash----- | 4.631 | - | 3,267 | - | 3,258 | 3,258 | 2,177 | 2,027 | 1,236 | 1,794 | 886 | - |
| Salt----- | 12,738 | - | 9,076 | - | 7,475 | 7,475 | 3,012 | 935 | 784 | 479 | 311 | - |
| Sulfur----- | - | 5,098 | 11,638 | 6,273 | - | 2,790 | 1,475 | 1,849 | 4,170 | 3,393 | 4,030 | 54 |
| Miscellaneous nonmetals----- | - | 8,372 | 21,06 | 6,813 | 1,906 | - | 3,332 | 963 | 1,774 | 2,256 | 1,344 | 661 |
| Combined rate----- | - | - | - | - | - | - | - | - | - | 261 | 1,080 | 1,177 |
| Average men working daily | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | |
| Under-ground mines | Open pit mines | Other surface mining | Total mining activities | Mills | Underground mines | | | Open pit mines | Other surface mining | Total mining activities | Mills | Grand total |
| | | | | | Underground | Surface | Total | | | | | |
| Clay----- | 28 | 1,114 | - | 1,142 | 467 | 239 | 43 | 302 | 3,881 | 4,183 | 12,612 | 16,795 |
| Gypsum----- | 16 | 61 | - | 77 | 52 | 298 | 94 | 392 | 520 | 912 | 2,421 | 2,421 |
| Phosphate rock----- | 4 | 78 | - | 82 | 41 | 108 | 27 | 135 | 2,935 | 2,170 | 2,056 | 2,274 |
| Potash----- | 11 | - | 1 | 12 | 9 | 96 | 394 | 1,343 | 4 | 1,367 | 2,077 | 2,077 |
| Salt----- | 16 | 3 | - | 77 | 54 | 1,067 | 419 | 1,486 | 26 | 279 | 5,242 | 5,242 |
| Sulfur----- | - | 19 | 19 | - | - | - | - | 1,059 | 1,816 | 1,726 | 2,76 | 2,76 |
| Miscellaneous nonmetals----- | 87 | 448 | 56 | 591 | 236 | 1,089 | 234 | 1,303 | 1,888 | 3,207 | 6,769 | 6,769 |
| Total or average----- | 162 | 1,704 | 153 | 2,019 | 859 | 3,750 | 1,211 | 4,961 | 8,278 | 2,097 | 15,336 | 42,461 |
| Average days active | - | - | - | - | - | - | - | - | - | 287 | 233 | 311 |
| Total mining activities | - | - | - | - | - | - | - | - | - | - | 261 | 286 |
| Surface mining | - | - | - | - | - | - | - | - | - | - | - | - |
| Underground mines | - | - | - | - | - | - | - | - | - | - | - | - |
| Mills | - | - | - | - | - | - | - | - | - | - | - | - |
| Grand total | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE A-11. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by mineral industry, 1970 - Continued

| Mineral industry | Man-days worked | | | | | | Man-hours worked | | | | | |
|------------------------------|-------------------|---------|-----------|----------------|----------------------|-------------------------|-------------------|------------|-----------|----------------|------------|-------------------------|
| | Underground mines | | | Mills | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Underground | Surface | Total | Underground | Surface | Total mining activities |
| Clay----- | 63,118 | 8,570 | 71,688 | 808,399 | - | 880,087 | 3,425,282 | 4,325,369 | 512,521 | 70,262 | 582,783 | 6,617,644 |
| Gypsum----- | 72,827 | 22,567 | 95,394 | 134,055 | - | 229,449 | 407,942 | 637,391 | 577,797 | 179,540 | 757,337 | 1,095,741 |
| Phosphate rock----- | 26,275 | 6,331 | 32,606 | 569,854 | - | 602,460 | 663,287 | 1,257,757 | 210,207 | 50,647 | 260,856 | 4,618,967 |
| Potash----- | 323,884 | 135,237 | 458,141 | 1,312 | - | 460,453 | 228,419 | 2,591,074 | 1,082,054 | 3,673,138 | 3,683,624 | 1,027,363 |
| Salt----- | 293,197 | 116,829 | 410,026 | 6,047 | - | 81,192 | 1,493,865 | 986,087 | 1,493,952 | 2,355,119 | 950,448 | 50,102 |
| Sulfur----- | 293,208 | 64,179 | 357,387 | 413,406 | 27,618 | 798,411 | 541,493 | 2,819,838 | 2,353,811 | 515,539 | 2,869,350 | 4,331,950 |
| Miscellaneous nonmetals----- | 1,072,509 | 353,733 | 1,426,242 | 1,931,761 | 632,215 | 4,010,218 | 7,752,454 | 11,762,672 | 8,600,529 | 2,848,490 | 11,449,019 | 15,742,637 |
| Total----- | | | | | | | | | | | | |

TABLE A-12. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by mineral industry, 1970

| Mineral industry | Fatal | | | | | | Nonfatal | | | | | |
|---|-------------------|---------|-------|----------------|----------------------|-------------------------|-------------------|---------|-------|----------------|---------|-------------------------|
| | Underground mines | | | Mills | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Underground | Surface | Total | Underground | Surface | Total mining activities |
| Injuries | | | | | | | | | | | | |
| Asbestos----- | - | - | - | - | - | - | - | 1 | - | 1 | 4 | - |
| Dolomite----- | - | - | - | - | - | - | - | 14 | 3 | 17 | 29 | 5 |
| Boron minerals----- | - | - | - | - | - | - | - | - | - | 31 | - | 46 |
| Feldspar----- | - | - | 1 | - | - | 1 | 3 | - | - | 7 | - | 31 |
| Fluor spar----- | - | - | - | - | - | - | 1 | 57 | 5 | 62 | 9 | 7 |
| Magnesite----- | - | - | - | - | - | - | - | - | - | 7 | 1 | 71 |
| Nicalite----- | - | - | - | - | - | - | - | - | - | 8 | 1 | 22 |
| Pumice----- | - | - | - | - | - | - | - | - | - | 12 | - | 16 |
| Sodium compounds----- | - | - | - | - | - | - | - | - | - | 5 | 5 | 23 |
| Talc, soapstone, and Pyrophyllite----- | 1 | - | 1 | - | - | 1 | 1 | 2 | 24 | 1 | - | 19 |
| Other nonmetals ^y ----- | 1 | - | 1 | - | - | 1 | 1 | 15 | 4 | 19 | 16 | 27 |
| Total----- | 2 | 1 | 3 | - | - | 3 | 4 | 7 | 116 | 130 | 116 | 1 |
| | | | | | | | | | | | | 247 |
| | | | | | | | | | | | | 432 |
| | | | | | | | | | | | | 679 |

^y Not elsewhere classified.

TABLE A-12.—Injury experience and wartime data by general work location at miscellaneous nonmetal mines and mills in the United States, by mineral industry, 1970—Continued

| Mineral industry | Fatal | | | | | | Nonfatal | | | | | |
|--|-------------------|---------------------------------|-------------------------|----------------|---------------------------------|-------------------------|-------------------|----------------|----------------------|-------------------------|-------------------|----------------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Mills | Other surface mining activities | Total mining activities | Underground | Surface | Total | Underground | Surface | Total |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Asbestos----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Barite----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Boron minerals----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Feldspar----- | 9.49 | 1.30 | - | - | - | - | 3.51 | 2.49 | - | 2.49 | - | - |
| Fluorspar----- | - | - | - | - | - | - | - | .73 | - | 85.49 | 47.44 | - |
| Magnesite----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Mica----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Pumice----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Sodium compounds----- | 2.97 | - | 2.34 | - | - | - | 1.54 | .81 | 1.06 | 71.40 | 22.11 | - |
| Talc, soapstone, and pyrophyllite----- | 2.13 | - | 1.67 | - | - | - | .59 | .18 | .25 | 32.02 | 30.74 | 31.74 |
| Other nonmetals 1----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | .85 | 1.94 | 1.05 | - | - | - | .46 | .25 | .31 | 49.28 | 27.16 | 45.31 |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Asbestos----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Barite----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Boron minerals----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Feldspar----- | 56,925 | 7,771 | - | - | - | - | 21,039 | 14,932 | - | 4,104 | 3,507 | - |
| Fluorspar----- | - | - | - | - | - | - | - | 4,384 | 11,613 | - | - | - |
| Magnesite----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Mica----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Pumice----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Sodium compounds----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Talc, soapstone, and pyrophyllite----- | 17,850 | - | 14,065 | - | - | - | 9,223 | 4,840 | 6,249 | 2,619 | 254 | - |
| Other nonmetals 1----- | 12,806 | - | 10,022 | - | - | - | 3,564 | - | 1,078 | 1,291 | 2,997 | 1,662 |
| Combined rate----- | 5,098 | 11,638 | 6,273 | - | - | - | 2,790 | 1,475 | 1,849 | 4,170 | 3,393 | 4,030 |
| Average men working daily | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | |
| Underground mines | | | | | | | | | | | | |
| Under-ground | Open pit mines | Other surface mining activities | Total mining activities | Mills | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Underground mines | Open pit mines |
| Underground mines | | | | | | | | | | | | |
| Asbestos----- | 2 | 9 | - | 11 | 7 | 12 | 3 | 15 | 109 | - | 124 | 324 |
| Barite----- | 2 | 40 | - | 42 | 40 | 63 | 18 | 81 | 295 | - | 376 | 251 |
| Boron minerals----- | 1 | 3 | 1 | 5 | 3 | 3 | 6 | 14 | 193 | 8 | 161 | 1,125 |
| Feldspar----- | 2 | 86 | 2 | 88 | 14 | 14 | - | 14 | 377 | - | 207 | 346 |
| Fluorspar----- | 26 | 11 | - | 37 | 9 | 322 | 55 | - | 55 | 18 | 414 | 632 |
| Magnesite----- | 4 | 9 | - | 13 | 12 | - | - | - | - | 73 | 1,041 | 1,114 |
| Mica----- | - | 28 | - | 28 | 16 | - | - | - | - | 63 | 204 | 267 |
| Pumice----- | - | 128 | - | 128 | 31 | - | - | - | - | 307 | 178 | 445 |
| Sodium compounds----- | 4 | 1 | 4 | 9 | 8 | 286 | 59 | 345 | 2 | 10 | 357 | 723 |
| Talc, soapstone, and pyrophyllite----- | 20 | 54 | - | 74 | 29 | 164 | 40 | 204 | 148 | 52 | 352 | 546 |
| Other nonmetals 1----- | 30 | 84 | 42 | 156 | 67 | 205 | 56 | - | 460 | 52 | 773 | 1,547 |
| Combined rate----- | 87 | 448 | 56 | 591 | 236 | 1,069 | 234 | 1,303 | 1,816 | 88 | 3,207 | 6,769 |
| Total or average----- | 87 | 448 | 56 | 591 | 236 | 1,069 | 234 | 1,303 | 1,816 | 88 | 3,207 | 6,769 |
| Average days active | | | | | | | | | | | | |
| Under-ground | Open pit mines | Other surface mining activities | Total mining activities | Mills | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Underground mines | Open pit mines |
| Asbestos----- | 2 | 9 | - | 11 | 7 | 12 | 3 | 15 | 109 | - | 124 | 324 |
| Barite----- | 2 | 40 | - | 42 | 40 | 63 | 18 | 81 | 295 | - | 376 | 251 |
| Boron minerals----- | 1 | 3 | 1 | 5 | 3 | 3 | 6 | 14 | 193 | 8 | 161 | 1,125 |
| Feldspar----- | 2 | 86 | 2 | 88 | 14 | 14 | - | 14 | 377 | - | 207 | 346 |
| Fluorspar----- | 26 | 11 | - | 37 | 9 | 322 | 55 | - | 55 | 18 | 414 | 632 |
| Magnesite----- | 4 | 9 | - | 13 | 12 | - | - | - | - | 73 | 1,041 | 1,114 |
| Mica----- | - | 28 | - | 28 | 16 | - | - | - | - | 63 | 204 | 267 |
| Pumice----- | - | 128 | - | 128 | 31 | - | - | - | - | 307 | 178 | 445 |
| Sodium compounds----- | 4 | 1 | 4 | 9 | 8 | 286 | 59 | 345 | 2 | 10 | 357 | 723 |
| Talc, soapstone, and pyrophyllite----- | 20 | 54 | - | 74 | 29 | 164 | 40 | 204 | 148 | 52 | 352 | 546 |
| Other nonmetals 1----- | 30 | 84 | 42 | 156 | 67 | 205 | 56 | - | 460 | 52 | 773 | 1,547 |
| Combined rate----- | 87 | 448 | 56 | 591 | 236 | 1,069 | 234 | 1,303 | 1,816 | 88 | 3,207 | 6,769 |
| Total or average----- | 87 | 448 | 56 | 591 | 236 | 1,069 | 234 | 1,303 | 1,816 | 88 | 3,207 | 6,769 |

1. Not elsewhere classified.

TABLE A-12. - Injury experience and worktime data by general work location at miscellaneous nonmetallic mines and mills in the United States, by mineral industry, 1970 - Continued

| Mineral industry | Man-days worked | | | | | | Man-hours worked | | | | | |
|--|-------------------|---------|---------|-------------------------|---------|-------------|-------------------|-----------|-----------|----------------------|-------------------------|------------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Other surface mining | Total mining activities | Mills |
| Asbestos----- | 3,427 | 857 | 4,284 | 27,382 | - | 31,666 | 91,997 | 123,663 | 27,418 | 6,854 | 34,272 | 219,284 |
| Barite----- | 16,057 | 4,295 | 20,352 | 72,972 | - | 93,324 | 163,779 | 257,103 | 128,557 | 34,358 | 163,815 | 597,376 |
| Boron minerals----- | 9 | 12 | 21 | 50,321 | 2,080 | 52,389 | 30,784 | 360,206 | 72 | 96 | 168 | 403,348 |
| Feldspar----- | 3,360 | - | 3,360 | 39,229 | - | 42,889 | 106,197 | 148,786 | 26,874 | 26,874 | 322,993 | - |
| Fluorspar----- | 83,340 | 13,173 | 96,513 | 4,299 | - | 100,812 | 69,553 | 170,365 | 666,731 | 105,401 | 772,132 | 35,239 |
| Magnesite----- | - | - | - | 13,510 | 5,319 | 18,829 | 317,054 | 335,883 | - | - | 113,402 | 42,553 |
| Mica----- | - | - | - | 11,903 | - | 11,903 | 55,761 | 67,664 | - | - | 100,272 | 100,272 |
| Pumice----- | - | - | - | 50,083 | - | 50,083 | 32,780 | 82,863 | - | - | 398,117 | 398,117 |
| Sodium compounds----- | 87,450 | 18,530 | 105,980 | 2,816 | 108,976 | 242,857 | 351,833 | 699,592 | 148,241 | 847,833 | 1,440 | 22,528 |
| Talc, soapstone, and pyrophyllite----- | 40,989 | 11,046 | 52,035 | 27,862 | 79,877 | 150,293 | 230,170 | 336,138 | 90,463 | 426,601 | 223,957 | 650,558 |
| Other nonmetals ^y ----- | 58,576 | 16,266 | 74,832 | 115,465 | 17,403 | 483,372 | 691,302 | 468,529 | 130,126 | 598,655 | 944,755 | 140,231 |
| Total----- | 293,208 | 64,179 | 357,387 | 413,406 | 27,618 | 798,411 | 2,021,427 | 2,819,838 | 2,353,811 | 515,539 | 2,869,350 | 3,360,183 |
| | | | | | | | | | | | | 221,949 |
| | | | | | | | | | | | | 16,266,512 |
| | | | | | | | | | | | | 22,717,934 |

^y Not elsewhere classified.

TABLE A-13. - Injury experience and worktime data by General work location at clay mines and mills in the United States, by State, 1970

| State | Fatal | | | | Nonfatal | | | | | | | | | | | |
|-----------------|-------------------|---------|---------|-------|-------------------------|-------|----------------------|-------|-------------------|---------|-------------|-------|-------------------------|-------|-------|--|
| | Underground mines | | Surface | | Open pit mines | | Other surface mining | | Underground mines | | Underground | | Total | | | |
| | Underground | Surface | Total | Mills | Total mining activities | Mills | Grand total | Mills | Open pit mines | Surface | Total | Mills | Total mining activities | Mills | Total | |
| Injuries | | | | | | | | | | | | | | | | |
| Alabama | | | | | | | | | | | | | | | | |
| Arizona | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Arkansas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| California | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Colorado | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Connecticut | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Delaware | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Florida | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Georgia | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Hawaii | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Idaho | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Illinois | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Indiana | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Iowa | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Kansas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Kentucky | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Louisiana | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Maine | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Maryland | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Massachusetts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Michigan | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Minnesota | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Mississippi | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Missouri | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Montana | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Nebraska | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Nevada | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| New Hampshire | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| New Jersey | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| New Mexico | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| New York | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| North Carolina | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| North Dakota | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Ohio | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Oklahoma | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Oregon | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Pennsylvania | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Rhode Island | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| South Carolina | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| South Dakota | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Tennessee | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Texas | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Utah | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Vermont | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Virginia | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Washington | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| West Virginia | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Wisconsin | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Wyoming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 4 | - | 4 | 4 | 8 | 23 | 2 | 25 | 147 | - | 172 | - | 889 | - | 1,061 | |

TABLE A-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|-------------------|---------|-------|-------|-------------------------|-------------|-------------------|---------|-------|----------------------|-------------------------|-------------|
| | Underground mines | | | Total | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Mills | Total mining activities | Grand total | Underground | Surface | Total | Other surface mining | Total mining activities | Grand total |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | 4.59 | - | 0.89 | - | - | - | 4.59 | - | 4.59 |
| Arizona----- | - | - | - | - | - | - | - | - | - | 13.00 | 34.05 | 46.24 |
| Arkansas----- | - | - | - | - | - | - | - | - | - | 50.89 | 48.51 | 49.53 |
| California----- | - | - | - | - | - | - | - | - | - | 9.56 | 22.70 | 29.05 |
| Colorado----- | - | - | - | - | - | - | - | - | - | 48.45 | 48.45 | 25.94 |
| Connecticut----- | - | - | - | - | - | - | - | - | - | - | - | 25.14 |
| De la vore----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | - | 4.42 | 4.42 | 18.70 |
| Georgia----- | - | - | .69 | .12 | - | - | - | - | - | 31.23 | 31.23 | 24.47 |
| Hawaii----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | 268.46 | 268.46 | - |
| Illinois----- | - | - | - | - | - | - | - | - | - | 7.06 | 7.06 | 126.46 |
| Indiana----- | - | - | - | - | - | - | - | - | - | 10.17 | 10.17 | 31.23 |
| Iowa----- | - | - | - | - | - | - | - | - | - | 20.83 | 20.83 | 28.77 |
| Kansas----- | - | - | - | - | - | - | - | - | - | 37.21 | 37.21 | 23.04 |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 59.87 | 59.87 | 55.82 |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 49.05 | 49.05 | 42.99 |
| Maine----- | - | - | - | - | - | - | - | - | - | 17.39 | 17.39 | 44.43 |
| Maryland----- | - | - | - | - | - | - | - | - | - | 25.95 | 25.95 | 31.17 |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | 19.23 | 19.23 | 53.62 |
| Michigan----- | - | - | - | - | - | - | - | - | - | 62.02 | 62.02 | 57.41 |
| Minnesota----- | - | - | - | - | - | - | - | - | - | 41.17 | 41.17 | 13.83 |
| Mississippi----- | - | - | - | - | - | - | - | - | - | 22.42 | 22.42 | 16.38 |
| Missouri----- | - | - | - | - | - | - | - | - | - | 24.77 | 24.77 | 22.82 |
| Montana----- | - | - | - | - | - | - | - | - | - | 16.87 | 16.87 | 23.18 |
| Nebraska----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oregon----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | - | - | - |
| South Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| South Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermont----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | - | - | .60 | - | .56 | .14 | .23 | 44.88 | 28.46 | 42.90 | 22.21 | - |
| | | | | | | | | | | 23.89 | 32.17 | 30.46 |

TABLE A-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | | Nonfatal | | | | |
|--------------------------------------|-------------------|---------|----------------|--------|-------------------------|-------------------|---------|----------------|--------|-------------------------|
| | Underground mines | | Open pit mines | | Total mining activities | Underground mines | | Open pit mines | | Total mining activities |
| | Underground | Surface | Total | Mills | Grand total | Underground | Surface | Total | Mills | Grand total |
| Severity rates per million man-hours | | | | | | | | | | |
| Alabama----- | - | - | - | 27,518 | - | 5,336 | - | - | 18 | 609 |
| Arizona----- | - | - | - | 43,578 | 22,234 | 21,724 | - | - | 143 | 185 |
| Arkansas----- | - | - | - | - | - | - | - | - | 574 | 536 |
| California----- | - | - | - | - | - | 19,685 | 696 | 1,126 | 1,035 | 1,035 |
| Colorado----- | - | - | - | - | - | - | - | - | 1,445 | 2,824 |
| Connecticut----- | - | - | - | - | - | 145 | - | - | - | 75 |
| Delaware----- | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | 71 | 308 |
| Georgia----- | - | - | - | - | - | 766 | - | - | 766 | 1,173 |
| Hawaii----- | - | - | - | 4,164 | 744 | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | - |
| Illinois----- | - | - | - | - | - | 28 | - | - | 1,074 | - |
| Indiana----- | - | - | - | - | - | 142 | 142 | 28 | 1,224 | 1,102 |
| Iowa----- | - | - | - | - | - | 1,072 | 1,072 | 1,072 | 896 | 767 |
| Kansas----- | - | - | - | - | - | - | - | - | 948 | 948 |
| Kentucky----- | - | - | - | - | - | - | - | - | 1,447 | 1,447 |
| Louisiana----- | - | - | - | - | - | 574 | - | - | 574 | 1,273 |
| Maine----- | - | - | - | - | - | - | - | - | 2,311 | 1,349 |
| Maryland----- | - | - | - | - | - | 779 | - | - | 779 | 751 |
| Massachusetts----- | - | - | - | - | - | 192 | - | - | 192 | 900 |
| Michigan----- | - | - | - | - | - | - | - | - | - | 2,425 |
| Minnesota----- | - | - | - | - | - | 155 | - | - | 155 | 652 |
| Mississippi----- | - | - | - | - | - | - | - | - | 232 | 232 |
| Missouri----- | - | - | - | - | - | 336 | - | - | 336 | 374 |
| Montana----- | - | - | - | - | - | 1,412 | - | - | 1,412 | 34 |
| Nebraska----- | - | - | - | - | - | 2,024 | - | - | 2,024 | 207 |
| Nevada----- | - | - | - | - | - | - | - | - | - | - |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | 261 | 1,057 |
| New York----- | - | - | - | - | - | - | - | - | 872 | 923 |
| North Carolina----- | - | - | - | - | - | 557 | - | - | 557 | 2,498 |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | 2,510 | - | - | 1,774 | - |
| Oklahoma----- | - | - | - | - | - | 1,807 | - | - | 1,807 | 1,001 |
| Oregon----- | - | - | - | - | - | - | - | - | 1,1807 | 1,1807 |
| Pennsylvania----- | - | - | - | - | - | - | - | - | 1,143 | 1,143 |
| South Carolina----- | - | - | - | - | - | - | - | - | 242 | 242 |
| South Dakota----- | - | - | - | - | - | - | - | - | 148 | 148 |
| Tennessee----- | - | - | - | - | - | - | - | - | 1,138 | 1,138 |
| Texas----- | - | - | - | - | - | - | - | - | 890 | 890 |
| Utah----- | - | - | - | - | - | - | - | - | 816 | 719 |
| Vermont----- | - | - | - | - | - | - | - | - | 2,927 | 2,927 |
| Virginia----- | - | - | - | - | - | - | - | - | 532 | 532 |
| Washington----- | - | - | - | - | - | - | - | - | 1,406 | 1,406 |
| West Virginia----- | - | - | - | - | - | - | - | - | 1,132 | 1,132 |
| Wisconsin----- | - | - | - | - | - | - | - | - | 935 | 799 |
| Wyoming----- | - | - | - | - | - | - | - | - | 1,162 | 1,162 |
| Combined rate | - | - | - | 3,627 | - | 3,333 | 869 | 1,378 | 2,207 | 213 |
| | - | - | - | - | - | - | - | - | 626 | 626 |
| | - | - | - | - | - | - | - | - | 735 | 735 |
| | - | - | - | - | - | - | - | - | 1,162 | 1,162 |
| | - | - | - | - | - | - | - | - | 1,074 | 1,074 |

TABLE A-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1970 - Continued

TABLE A-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1970 - Continued

| State | Man-days worked | | | | | | Man-hours worked | | | | | | |
|---------------------|-------------------|---------|--------|-------------------------|---------|-------------|-------------------|---------|---------|----------------|-----------|-----------|------------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Underground | Surface | Total | |
| Alabama----- | - | - | - | 26,697 | 112,872 | 139,569 | - | - | - | 218,036 | 906,332 | 1,124,368 | |
| Arizona----- | - | - | - | 5,714 | 8,110 | 13,824 | - | - | - | 44,512 | 64,880 | 109,392 | |
| Arkansas----- | - | - | - | 9,262 | 9,262 | 108,113 | - | - | - | 76,902 | 792,880 | 869,792 | |
| California----- | 562 | 526 | 1,088 | 21,937 | 23,025 | 80,675 | 4,694 | 4,205 | 8,699 | 176,844 | 662,453 | 867,996 | |
| Colorado----- | 3,192 | 3,452 | 260 | 13,099 | 16,551 | 17,211 | 33,762 | 25,524 | 2,060 | 104,587 | 132,171 | 137,685 | |
| Connecticut----- | - | - | - | 2,424 | 2,424 | 3,190 | 5,914 | - | - | 20,639 | 19,140 | 39,779 | |
| Delaware----- | - | - | - | 313 | 626 | 626 | - | - | - | 2,504 | 2,504 | 5,008 | |
| Florida----- | - | - | - | 27,656 | 78,693 | 106,149 | - | - | - | 226,775 | 629,550 | 855,825 | |
| Georgia----- | - | - | - | 176,303 | 87,303 | 1,003,606 | - | - | - | 1,440,952 | 6,019,255 | 8,080,950 | |
| Hawaii----- | - | - | 128 | 1,040 | 1,168 | 1,168 | - | - | - | 1,020 | 8,320 | 9,340 | |
| Idaho----- | - | - | - | 2,079 | 1,872 | 3,951 | - | - | - | 16,632 | 161,714 | 161,532 | |
| Illinois----- | - | - | 17,528 | 17,528 | 151,914 | 169,442 | - | - | - | 141,714 | 1,248,751 | 1,390,465 | |
| Indiana----- | 38 | 38 | 12,880 | 12,918 | 61,620 | 74,538 | 225 | 225 | 98,357 | 98,582 | 576,016 | 576,016 | |
| Iowa----- | - | - | 16,410 | 16,410 | 76,650 | 93,060 | - | - | - | 134,372 | 134,372 | 117,982 | |
| Kansas----- | - | - | 6,664 | 6,664 | 48,159 | 54,823 | - | - | - | 51,695 | 51,695 | 366,988 | |
| Kentucky----- | - | - | 21,210 | 21,210 | 43,117 | 43,117 | - | - | - | 172,538 | 180,034 | 352,592 | |
| Louisiana----- | - | - | 20,098 | 28,341 | 48,339 | 48,339 | - | - | - | 161,599 | 161,599 | 388,329 | |
| Maine----- | - | - | - | 4,832 | 4,832 | 9,994 | - | - | - | 38,535 | 37,300 | 75,835 | |
| Maryland----- | - | - | 6,471 | 6,471 | 32,182 | 38,053 | - | - | - | 52,009 | 259,947 | 311,956 | |
| Massachusetts----- | - | - | 3,060 | 3,060 | 18,241 | 18,301 | - | - | - | 25,267 | 121,926 | 147,193 | |
| Michigan----- | - | - | 3,971 | 72,266 | 76,237 | 76,237 | - | - | - | 32,246 | 578,388 | 610,634 | |
| Minnesota----- | - | - | 2,097 | 2,097 | 33,394 | 35,491 | - | - | - | 16,776 | 16,776 | 283,945 | |
| Mississippi----- | - | - | 27,864 | 27,864 | 97,523 | 125,387 | - | - | - | 223,004 | 278,828 | 1,011,832 | |
| Missouri----- | - | - | 39,794 | 39,794 | 22,362 | 62,156 | - | - | - | 323,005 | 177,828 | 500,393 | |
| Montana----- | - | - | 6,536 | 6,536 | 7,850 | 14,406 | - | - | - | 59,293 | 59,293 | 122,094 | |
| Nebraska----- | - | - | 1,493 | 1,493 | 946 | 2,439 | - | - | - | 12,468 | 12,468 | 62,801 | |
| Nevada----- | - | - | 28 | 178 | 178 | 178 | 600 | 600 | 1,200 | - | 6,620 | - | |
| New Hampshire----- | 75 | 75 | 150 | 561 | 6,974 | 7,535 | - | - | - | 1,424 | - | 1,424 | |
| New Jersey----- | - | - | - | 7,621 | 47,419 | 55,040 | - | - | - | 61,407 | 61,407 | 379,349 | |
| New Mexico----- | - | - | 1,912 | 1,912 | 13,075 | 14,987 | - | - | - | 15,296 | 104,756 | 110,756 | |
| New York----- | - | - | 16,769 | 16,769 | 95,760 | 100,760 | - | - | - | 136,161 | 136,161 | 337,339 | |
| North Carolina----- | - | - | 31,452 | 179,149 | 210,601 | 210,601 | - | - | - | 255,976 | 1,447,771 | 1,702,944 | |
| North Dakota----- | - | - | 11,112 | 1,112 | 1,193 | 1,193 | - | - | - | 410,424 | 580,894 | 642,864 | |
| Ohio----- | - | - | 71,199 | 207,784 | 134,800 | 134,800 | 15,346 | 15,346 | 170,146 | 1,653,232 | 1,653,232 | 2,323,522 | |
| Oklahoma----- | - | - | 5,533 | 71,033 | 76,566 | 76,566 | - | - | - | 411,502 | 551,046 | 592,548 | |
| Oregon----- | 466 | 160 | 626 | 5,865 | 9,280 | 15,145 | 3,728 | 1,280 | 5,008 | 47,112 | 74,240 | 121,352 | |
| Pennsylvania----- | 15,299 | 3,244 | 18,543 | 47,691 | 66,234 | 206,079 | 272,313 | 129,974 | 27,716 | 157,690 | 392,644 | 530,334 | |
| South Carolina----- | - | - | - | 27,177 | 208,819 | 235,996 | - | - | - | 226,823 | 226,823 | 2,201,636 | |
| South Dakota----- | - | - | 11,386 | 11,386 | 19,049 | 30,435 | - | - | - | 91,089 | 91,089 | 1,675,752 | |
| Tennessee----- | - | - | - | 25,039 | 56,039 | 81,762 | - | - | - | 210,612 | 442,262 | 672,879 | |
| Texas----- | - | - | 47,896 | 47,896 | 242,663 | 242,663 | - | - | - | 394,576 | 394,576 | 2,365,506 | |
| Utah----- | - | - | 11,447 | 21,521 | 4,957 | 32,478 | 126,338 | 2,320 | 128,558 | 91,176 | 20,134 | 39,636 | |
| Vermont----- | - | - | 150 | 150 | 150 | 150 | - | - | - | 900 | 900 | 647,900 | |
| Virginia----- | - | - | 9,317 | 71,896 | 81,213 | 81,213 | - | - | - | 77,887 | 569,313 | - | |
| Washington----- | 8,367 | 2,092 | 10,449 | 25,187 | 38,827 | 66,938 | 16,735 | 16,735 | 83,673 | 16,699 | 16,699 | 208,997 | |
| West Virginia----- | - | - | 3,181 | 13,640 | 13,130 | 1,890 | 2,020 | 2,020 | 644 | 644 | 16,470 | 17,114 | |
| Wisconsin----- | - | - | 27,232 | 27,232 | 87,496 | 114,726 | - | - | - | 252,306 | 252,306 | 956,555 | |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total----- | 63,118 | 8,570 | 71,688 | 808,399 | - | 3,445,282 | 4,325,369 | 512,521 | 70,262 | 582,783 | 6,617,644 | - | 34,832,769 |

TABLE A-14. - Injury experience and worktime data by general work location at gypsum mines and mills in the United States, by State, 1970

Frequency rates per million man-hours

TABLE A-14. - Injury experience and worktime data by general work location at gypsum mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|--------------------------------------|-------------------|---------|-------------------|----------------|----------------------|----------------|-------------------------|----------------------|----------------------|-------------------|---------|-------------------------|
| | Underground mines | | | Open pit mines | | | Total mining activities | | | Underground mines | | |
| | Underground | Surface | Total | Mills | Other surface mining | Total | Mills | Other surface mining | Total | Underground | Surface | Total |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Arizona----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Arkansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Indiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Iowa----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | 20,769 | - | 15,845 | - | - | 6,476 | - | - | 2,320 | 931 | - | - |
| Total or average----- | 77 | 52 | 298 | 94 | 392 | 520 | - | - | 912 | 1,509 | 2,421 | 243 |
| Average men working daily | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | |
| Mines | Mills | Mills | Underground mines | | | Open pit mines | | | Other surface mining | | | Total mining activities |
| | | | Underground | Surface | Total | | | | | | | |
| Arizona----- | 4 | 3 | - | - | - | - | 13 | - | 13 | 36 | 47 | - |
| Arkansas----- | 3 | 3 | 5 | 5 | - | - | 46 | 46 | 192 | 192 | 239 | 239 |
| California----- | 9 | 9 | 5 | 2 | - | - | 42 | 42 | 97 | 97 | 242 | 250 |
| Colorado----- | 3 | 3 | 2 | 2 | - | - | 11 | 11 | 46 | 55 | 286 | 286 |
| Indiana----- | 2 | 2 | 34 | 9 | - | - | 43 | 43 | 295 | 295 | 166 | 166 |
| Iowa----- | 5 | 5 | 12 | 3 | 15 | 80 | 95 | 95 | 133 | 270 | 267 | 267 |
| Kansas----- | 3 | 3 | 2 | 17 | 8 | 25 | 30 | 30 | 107 | 137 | 297 | 293 |
| Louisiana----- | 1 | 1 | 2 | 7 | 5 | 10 | 10 | 10 | 86 | 96 | 251 | 293 |
| Michigan----- | 6 | 5 | 62 | 26 | 88 | 69 | 157 | 157 | 69 | 226 | 270 | 249 |
| Montana----- | 1 | 1 | 4 | 4 | - | 4 | 4 | 4 | 2 | 6 | 267 | 266 |
| Nevada----- | 6 | 6 | 3 | 3 | - | 3 | 32 | 32 | 158 | 190 | 15 | 256 |
| New Mexico----- | 5 | 1 | 1 | - | - | - | 9 | 9 | 47 | 56 | 127 | 127 |
| New York----- | 4 | 4 | 97 | 31 | 128 | - | - | 128 | 53 | 181 | 248 | 248 |
| Ohio----- | 2 | 2 | 14 | 3 | 17 | 8 | 25 | 25 | 40 | 40 | 305 | 303 |
| Oklahoma----- | 7 | 3 | - | - | 67 | 67 | 67 | 67 | 84 | 151 | 237 | 237 |
| Texas----- | 8 | 6 | - | - | 100 | 100 | 100 | 100 | 168 | 268 | 264 | 264 |
| Utah----- | 3 | 2 | - | - | 15 | 15 | 15 | 15 | 63 | 78 | 230 | 230 |
| Virginia----- | 1 | - | 55 | 14 | 69 | - | - | 69 | 69 | 278 | 278 | - |
| Washington----- | 1 | 1 | - | - | - | - | 2 | 2 | 2 | 45 | 45 | - |
| Wyoming----- | 3 | 3 | - | - | - | 14 | 14 | 14 | 86 | 100 | 240 | 240 |
| Total or average----- | 77 | 52 | 298 | 94 | 392 | 520 | - | - | 912 | 1,509 | 2,421 | 243 |
| Average days active | | | | | | | | | | | | |
| Mines | Mills | Mills | Underground mines | | | Open pit mines | | | Underground mines | | | Total mining activities |
| | | | Underground | Surface | Total | | | | | | | |
| Arizona----- | 4 | 3 | 1 | 1 | - | - | 13 | 13 | 47 | 47 | - | - |
| Arkansas----- | 9 | 9 | 5 | 2 | - | - | 46 | 46 | 97 | 97 | - | - |
| California----- | 3 | 3 | 2 | 2 | - | - | 11 | 11 | 46 | 55 | 286 | 286 |
| Colorado----- | 34 | 9 | 43 | - | - | - | 43 | 43 | 295 | 295 | 166 | 166 |
| Indiana----- | 12 | 3 | 15 | 80 | 80 | 80 | 95 | 95 | 133 | 270 | 267 | 267 |
| Iowa----- | 17 | 8 | 25 | 30 | 30 | 30 | 30 | 30 | 107 | 137 | 251 | 293 |
| Kansas----- | 1 | 2 | 7 | 5 | 10 | 10 | 10 | 10 | 86 | 96 | 270 | 249 |
| Louisiana----- | 6 | 5 | 62 | 26 | 88 | 69 | 157 | 157 | 69 | 226 | 270 | 249 |
| Michigan----- | 1 | 1 | 4 | 4 | - | 4 | 4 | 4 | 2 | 6 | 267 | 266 |
| Montana----- | 6 | 6 | 3 | 3 | - | 3 | 32 | 32 | 158 | 190 | 15 | 256 |
| Nevada----- | 5 | 1 | 1 | - | - | - | 9 | 9 | 47 | 56 | 127 | 127 |
| New Mexico----- | 4 | 4 | 97 | 31 | 128 | - | - | 128 | 53 | 181 | 248 | 248 |
| New York----- | 2 | 2 | 14 | 3 | 17 | 8 | 25 | 25 | 40 | 40 | 305 | 303 |
| Ohio----- | 2 | 2 | 14 | 3 | 17 | 8 | 25 | 25 | 40 | 40 | 305 | 303 |
| Oklahoma----- | 7 | 3 | - | - | 67 | 67 | 67 | 67 | 84 | 151 | 237 | 237 |
| Texas----- | 8 | 6 | - | - | 100 | 100 | 100 | 100 | 168 | 268 | 264 | 264 |
| Utah----- | 3 | 2 | - | - | 15 | 15 | 15 | 15 | 63 | 78 | 230 | 230 |
| Virginia----- | 1 | - | 55 | 14 | 69 | - | - | 69 | 69 | 278 | 278 | - |
| Washington----- | 1 | 1 | - | - | - | - | 2 | 2 | 2 | 45 | 45 | - |
| Wyoming----- | 3 | 3 | - | - | - | 14 | 14 | 14 | 86 | 100 | 240 | 240 |
| Total or average----- | 77 | 52 | 298 | 94 | 392 | 520 | - | - | 912 | 1,509 | 2,421 | 243 |
| Mills | | | | | | | | | | | | |
| Arizona----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Arkansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Indiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Iowa----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Total or average----- | 77 | 52 | 298 | 94 | 392 | 520 | - | - | 912 | 1,509 | 2,421 | 243 |

TABLE A-14. - Injury experience and worktime data by general work location at gypsum mines and mills in the United States, by State, 1970 - Continued

TABLE A-15. - Injury experience and worktime data by general work location at phosphate rock mines and mills in the United States, by State, 1970

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------|-------------------|----------|----------|---------------------------------|----------|----------|-------------------|----------|----------|---------------------------------|-----------|-------------|
| | Underground mines | | | Other surface mining activities | | | Underground mines | | | Other surface mining activities | | |
| | Underground | Surface | Total | Underground | Surface | Total | Underground | Surface | Total | Mills | Mills | Grand total |
| Injuries | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | - | 11 | 8 | 19 |
| Idaho----- | - | - | - | - | - | - | - | - | - | 3 | 1 | 4 |
| Montana----- | - | - | - | - | - | - | - | - | - | 4 | 1 | 5 |
| North Carolina----- | - | - | - | - | - | - | - | - | - | 2 | 1 | 3 |
| Tennessee----- | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 8 | 1 | 9 |
| Utah----- | - | - | - | - | - | - | - | - | - | 6 | 1 | 7 |
| Wyoming----- | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 |
| Totals----- | 1 | - | - | 1 | 1 | - | 2 | 1 | 3 | 10 | 25 | - |
| | | | | | | | | | | 35 | 16 | 51 |

TABLE A-15. - Injury experience and worktime data by general work location at phosphate rock mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|-------------------|-------------------|---------|-------------------------|----------------------|---------|-------------------|----------------------|---------|----------------|-------------------------|-------|
| | Underground mines | | | Total mining activities | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Mills | Grand total | Underground | Surface | Total | Other surface mining | Mills |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | 4.76 | - | 3.83 | .22 | - | .41 | .19 | .29 | 47.57 | - | 38.34 | 5.41 |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | 28.543 | - | 23,001 | 1,299 | - | 2,459 | 1,130 | 1,767 | 2,198 | - | 1,771 | 203 |
| Average men working daily | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | |
| Mines | Mills | Underground mines | | | Open pit mines | | | Other surface mining | | | Total mining activities | Mills |
| Mines | Mills | Underground | Surface | Total | Underground | Surface | Total | Underground | Surface | Total | Underground mines | Mills |
| Alabama----- | 1 | - | - | - | - | - | - | 2 | - | - | 2 | - |
| California----- | 1 | - | - | - | - | - | - | 3 | - | - | 3 | - |
| Florida----- | 25 | 27 | - | - | - | - | - | 1,343 | 1,743 | 3,086 | 3,086 | - |
| Idaho----- | 4 | 2 | - | - | - | - | - | 310 | 37 | 347 | 347 | - |
| Montana----- | 2 | 1 | 72 | 9 | 81 | - | - | 1 | - | - | 103 | 236 |
| North Carolina----- | 1 | 1 | - | - | - | - | - | 68 | 73 | 141 | 141 | - |
| Tennessee----- | 40 | 7 | 36 | 18 | 54 | - | - | 232 | 89 | 27 | 232 | - |
| Utah----- | 5 | 2 | - | - | - | - | - | 38 | 92 | 119 | 119 | - |
| Wyoming----- | 3 | 1 | - | - | - | - | - | 38 | 64 | 102 | 102 | - |
| Total or average----- | 82 | 41 | 108 | 27 | 135 | 2,035 | - | 2,170 | 2,054 | 4,224 | 2,62 | 280 |
| | | | | | | | | | | | - | 278 |
| | | | | | | | | | | | | 323 |
| Average days active | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |

TABLE A-15. - Injuries, experience and worktime data by general work location at phosphate rock mines and mills in the United States, by State, 1970 - Continued

TABLE A-16.—Injury experience and worktime data by general work location at potash mines and mills in the United States, by State, 1970

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|-------------------|---------|-------|----------------------|-------------------------|-------|-------------------|-------------|---------|----------------|----------------------|-------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Other surface mining | Total mining activities | Mills | Grand total | Underground | Surface | Total | Other surface mining | Mills |
| Injuries | | | | | | | | | | | | |
| New Mexico----- | 2 | - | 2 | - | - | 2 | - | 2 | 118 | 29 | 147 | - |
| Utah----- | - | - | - | - | - | - | - | - | 4 | - | - | 4 |
| Total----- | 2 | - | 2 | - | - | 2 | - | 2 | 122 | 29 | 151 | - |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| New Mexico----- | 0.81 | - | 0.58 | - | - | 0.58 | - | 0.39 | 47.92 | 28.74 | 42.35 | 16.96 |
| Utah----- | - | - | - | - | - | - | - | 31.11 | - | 19.83 | - | 18.85 |
| Combined rate----- | .77 | - | .54 | - | - | .54 | - | .36 | 47.08 | 26.80 | 41.11 | - |
| Severity rates per million man-hours | | | | | | | | | | | | |
| New Mexico----- | 4,873 | - | 3,457 | - | - | 3,457 | - | 2,343 | 1,520 | 1,325 | 1,464 | 632 |
| Utah----- | - | - | - | - | - | - | - | - | 11,727 | - | 7,776 | - |
| Combined rate----- | 4,631 | - | 3,267 | - | - | 3,258 | - | 2,177 | 2,027 | 1,236 | 1,794 | 571 |
| | | | | | | | | | | | 1,789 | 1,385 |
| | | | | | | | | | | | 1,196 | 3,878 |

TABLE A-16. - Injury experience and worktime data by general work location at potash mines and mills in the United States, by State, 1970 - Continued

| State | Active operations | | | Average men working daily | | | | | | Average days active | | | |
|-----------------------|-------------------|---------|---------|---------------------------|---------|---------|----------------------|-----------|-----------|-------------------------|---------|-----------|-----------|
| | Underground mines | | | Open pit mines | | | Other surface mining | | | Total mining activities | | | |
| | Mines | Mills | | Underground | Surface | Total | Mills | | | Mills | | | |
| New Mexico----- | 10 | 7 | 884 | 359 | 1,263 | 100 | - | 4 | 1,243 | 646 | 1,889 | 349 | |
| Utah----- | 2 | 65 | - | - | - | - | 82 | - | 104 | 188 | 252 | - | |
| Total or average----- | 12 | 9 | 949 | 394 | 1,343 | - | 4 | 1,347 | 730 | 2,077 | 342 | - | |
| Man-days worked | | | | | | | | | | | | | |
| State | Underground mines | | | Open pit mines | | | Other surface mining | | | Grand total | | | |
| | Underground | Surface | Total | Underground | Surface | Total | Underground | Surface | Total | Underground | Surface | Total | |
| | 307,811 | 126,118 | 433,929 | 433,929 | 206,340 | 640,269 | 2,462,485 | 1,008,939 | 3,471,424 | 1,471,424 | 212,200 | 1,650,729 | |
| New Mexico----- | 16,073 | 9,139 | 25,212 | - | 1,312 | 26,224 | 48,503 | 128,589 | 73,115 | - | - | 10,496 | 3,471,424 |
| Utah----- | - | - | - | 1,312 | 460,453 | 228,419 | 688,872 | 2,591,074 | 1,082,054 | 3,673,128 | - | - | 10,496 |
| Total----- | 323,884 | 135,257 | 459,141 | - | - | - | - | - | - | - | - | - | 3,683,128 |
| Total or average----- | 323,884 | 135,257 | 459,141 | - | - | - | - | - | - | - | - | - | 3,683,128 |

TABLE A-17. - Injury experience and worktime data by general work location at salt mines and mills in the United States, by State, 1970

| State | Underground mines | | | Injuries | | | | | | Nonfatal | | |
|-----------------------|-------------------|-------|---|----------|-------|---|----------------------|-------|----|-------------|---------|-------|
| | Underground | | | Open pit | | | Other surface mining | | | Underground | | |
| | Mines | Mills | | Mines | Mills | | Mines | Mills | | Underground | Surface | Total |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Hawaii----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Total----- | 5 | - | 5 | - | - | 5 | 1 | 6 | 94 | 26 | 120 | 3 |
| Total or average----- | 5 | - | 5 | - | - | 5 | 1 | 6 | 94 | 26 | 120 | 3 |

TABLE A-17. - Injury experience and worktime data by general work location at salt mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|-------------------|---------|-------|----------------------|-------|-------------------------|-------------|---------|--------|-------------------|----------------------|-------------------------|
| | Underground mines | | | Open pit mines | | | Underground | | | Underground mines | | |
| | Underground | Surface | Total | Other surface mining | Mills | Total mining activities | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Hawaii----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | 2.12 | - | 1.51 | - | - | 1.25 | .13 | .50 | .39,91 | 27.36 | 36.30 | 59.88 |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Hawaii----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | 12.738 | - | 9,076 | - | - | 7,475 | 756 | 3,012 | 936 | 764 | 886 | 4,79 |

TABLE A-17. - Injury experience and worktime data by general work location at salt mines and mills in the United States, by State, 1970 - Continued

| State | Active operations | | | Average men working daily | | | | | | | | | | Average days active | | | | |
|-----------------------|-------------------|---------|-----------------|---------------------------|-------------------------|---------|-------------|----------------|----------------------|-------------------------|-------------|-------------|-------------------|----------------------|-------------------------|-------------------------|-------------|-----|
| | Mines | Mills | Underground | Underground mines | | | Total | Open pit mines | Other surface mining | Total mining activities | Mills | Grand total | Underground mines | Open pit mines | Other surface mining | Total mining activities | Mills | |
| | | | | Surface | Total | Mills | | | | | | | | | | | | |
| Alabama----- | 1 | 1 | - | - | - | - | 4 | 4 | 125 | 129 | - | - | 365 | 228 | 238 | 365 | 365 | |
| California----- | 15 | 9 | - | - | - | - | 51 | 51 | 415 | 487 | - | - | 365 | 235 | 235 | 365 | 365 | |
| Colorado----- | 1 | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - | 120 | 120 | 120 | 120 | 120 |
| Hawaii----- | 1 | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - | 285 | 285 | 285 | 285 | 285 |
| Kansas----- | 9 | 7 | - | - | - | - | 19 | 19 | 350 | 432 | - | - | 353 | 288 | 288 | 288 | 288 | |
| Louisiana----- | 18 | 5 | 283 | 122 | 405 | 157 | 40 | 445 | 381 | 826 | 826 | - | - | 348 | 292 | 292 | 348 | 348 |
| Michigan----- | 9 | 7 | 103 | 54 | - | - | 14 | 171 | 656 | 827 | 233 | - | - | 340 | 260 | 260 | 302 | 302 |
| Nevada----- | 1 | - | - | - | - | - | 2 | 2 | - | 2 | - | - | - | 55 | 55 | 55 | 55 | 55 |
| New Mexico----- | 1 | 2 | - | - | - | - | 18 | 443 | 594 | 1,037 | 48 | - | - | 91 | 91 | 91 | 91 | 91 |
| New York----- | 6 | 5 | 275 | 150 | 425 | - | 3 | 3 | 26 | 29 | - | - | 299 | 280 | 280 | 280 | 280 | |
| North Dakota----- | 1 | 1 | - | - | - | - | 13 | 402 | 482 | 884 | 277 | - | - | 365 | 365 | 365 | 365 | 365 |
| Ohio----- | 7 | 5 | 322 | 67 | 389 | - | 13 | 4 | 5 | 9 | - | - | 289 | 277 | 277 | 296 | 296 | |
| Oklahoma----- | 3 | 1 | - | - | - | - | 75 | 119 | 237 | 356 | 257 | - | - | 208 | 208 | 208 | 208 | 208 |
| Texas----- | 12 | 3 | 30 | 14 | 44 | - | 5 | 18 | 26 | 152 | 35 | - | - | 294 | 280 | 280 | 267 | 267 |
| Utah----- | 7 | 7 | 3 | - | - | - | 3 | 126 | 152 | 212 | 35 | - | - | 250 | 232 | 232 | 213 | 213 |
| Virginia----- | 1 | 1 | - | - | - | - | 1 | 8 | 11 | 11 | - | - | - | 365 | 365 | 365 | 300 | 300 |
| West Virginia----- | 3 | - | - | - | - | - | 11 | - | - | - | - | - | - | 332 | 332 | 332 | 332 | 332 |
| Total or average----- | 96 | 54 | 1,067 | 419 | 1,486 | 26 | 279 | 1,791 | 3,451 | 5,242 | 276 | 233 | 293 | 278 | 278 | 286 | 286 | |
| Man-days worked | | | | | | | | | | | | | | | | | | |
| Underground mines | | | Man-days worked | | | | | | | | | | Man-hours worked | | | | | |
| Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Mills | Grand total | Underground | Surface | Total | Underground | Surface | Open pit mines | Other surface mining | Total mining activities | Mills | Grand total | |
| Alabama----- | - | - | - | - | - | 1,460 | 16,924 | 111,841 | 12,127 | 1,460 | 45,638 | 128,765 | - | - | - | 11,680 | 11,680 | |
| California----- | - | - | - | - | - | 365 | 365 | 365 | - | 120 | 120 | 120 | - | - | 98,824 | 98,824 | | |
| Hawaii----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,600 | 2,600 | | |
| Kansas----- | 13,459 | 3,162 | 16,621 | 23,337 | 102,810 | 126,147 | 107,675 | 25,296 | 132,971 | 699 | 922,320 | 112,126 | 53,728 | 186,699 | 822,485 | 822,485 | | |
| Louisiana----- | 80,345 | 35,476 | 115,821 | 139,747 | 108,086 | 237,833 | 640,910 | 281,410 | 922,320 | 300 | 1,034,446 | 873,351 | 112,126 | 1,034,446 | 1,034,446 | 1,034,446 | | |
| Michigan----- | 26,269 | 13,465 | 39,734 | 47,762 | 44,496 | 198,042 | 242,538 | 218,022 | 121,184 | 339,266 | 38,096 | 339,266 | 38,096 | 377,304 | 1,648,610 | 1,648,610 | | |
| Nevada----- | - | - | - | - | - | 110 | 110 | 110 | - | - | - | - | - | 880 | 880 | 880 | | |
| New Mexico----- | - | - | - | - | - | 182 | 182 | 182 | 14,016 | 14,198 | - | - | - | 1,456 | 1,456 | 1,456 | | |
| Ohio----- | - | - | - | - | - | 5,374 | 124,073 | 154,598 | 278,671 | 618,312 | 339,551 | 957,863 | - | - | 43,132 | 43,132 | | |
| Oklahoma----- | 76,849 | 41,850 | 118,639 | 1,095 | 1,095 | 6,760 | 7,855 | 7,855 | - | - | - | - | - | 8,760 | 8,760 | 8,760 | | |
| Texas----- | 88,554 | 19,180 | 107,734 | 3,757 | 111,491 | 142,639 | 254,130 | 708,432 | 153,439 | 861,871 | 30,056 | 891,927 | 1,213,173 | 1,213,173 | 54,080 | 54,080 | 54,080 | |
| Utah----- | 7,616 | 3,696 | 11,312 | - | 830 | 900 | 1,730 | - | - | - | - | - | - | 6,640 | 6,640 | 6,640 | | |
| Virginia----- | - | - | - | 22,041 | 33,353 | 63,246 | 96,999 | 60,928 | 29,568 | 90,496 | - | - | - | 178,170 | 268,666 | 505,968 | | |
| West Virginia----- | - | - | - | 4,182 | 5,537 | 35,111 | 40,648 | 840 | 840 | 10,000 | 33,233 | 44,073 | 33,233 | 33,233 | 317,869 | 317,869 | | |
| Total----- | 293,197 | 116,829 | 410,026 | 6,047 | 81,792 | 497,865 | 986,087 | 1,483,952 | 2,355,119 | 950,448 | 3,305,567 | 50,102 | 657,601 | 4,013,270 | 4,013,270 | 11,932,485 | | |

TABLE A-18. - Injury experience and worktime data by general work location at sulfur mines and mills in the United States, by State, 1970

TABLE A-19. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1970

| State | Fatal | | | | | | Nonfatal | | | | | | | | | |
|---------------------|-------------------|---------|-------|---------------------------------|----------------------|-------|-------------------|---------|-------|---------------------------------|----------------------|-------|---|-----|------|-----|
| | Underground mines | | | Other surface mining activities | | | Underground mines | | | Other surface mining activities | | | | | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total | Underground | Surface | Total | Open pit mines | Other surface mining | Mills | | | | |
| Injuries | | | | | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | 2 | | | | |
| Alaska----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Arizona----- | - | - | - | - | - | - | 1 | 1 | 1 | 2 | - | 2 | | | | |
| Arkansas----- | 1 | 1 | 2 | 1 | 1 | 2 | 14 | 3 | 17 | 18 | 8 | 26 | | | | |
| California----- | 1 | 1 | 2 | 1 | 1 | 2 | 8 | 2 | 10 | 45 | 30 | 197 | | | | |
| Colorado----- | 1 | 1 | 2 | 1 | 1 | 2 | 20 | 3 | 23 | 7 | 2 | 15 | | | | |
| Connecticut----- | - | - | - | - | - | - | - | - | - | 2 | - | 5 | | | | |
| Florida----- | - | - | - | - | - | - | - | - | - | - | 8 | 8 | | | | |
| Georgia----- | - | - | - | - | - | - | 1 | 3 | 3 | 3 | 6 | 15 | | | | |
| Hawaii----- | - | - | - | - | - | - | - | - | - | 3 | 3 | 21 | | | | |
| Idaho----- | - | - | - | - | - | - | - | - | - | 1 | 3 | 5 | | | | |
| Illinois----- | - | - | - | - | - | - | 33 | 2 | 35 | 1 | 35 | 4 | | | | |
| Indiana----- | - | - | - | - | - | - | - | - | - | 9 | 9 | 44 | | | | |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 2 | - | 2 | | | | |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 5 | 5 | 5 | | | | |
| Maine----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Maryland----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | 2 | 2 | | | | |
| Minnesota----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Mississippi----- | - | - | - | - | - | - | - | - | - | - | 10 | 10 | | | | |
| Missouri----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Nebraska----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Nevada----- | - | - | - | - | - | - | - | - | - | 8 | 8 | 51 | | | | |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - | 9 | 9 | | | | |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | 4 | 4 | | | | |
| New York----- | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 13 | 17 | | | | |
| North Carolina----- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 5 | 12 | | | | |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | 6 | 6 | | | | |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | 31 | 37 | | | | |
| Texas----- | - | - | - | - | - | - | - | - | - | 1 | 6 | 24 | | | | |
| Utah----- | - | - | - | - | - | - | - | - | - | 2 | 3 | 22 | | | | |
| Vermont----- | - | - | - | - | - | - | - | - | - | 10 | 12 | 22 | | | | |
| Virginia----- | - | - | - | - | - | - | - | - | - | 1 | 9 | 10 | | | | |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - | | | | |
| Wyoming----- | - | - | - | - | - | - | - | - | - | 6 | 6 | 12 | | | | |
| Total----- | 2 | 1 | 3 | - | - | 3 | 4 | 7 | 116 | 14 | 130 | 116 | 1 | 247 | 4,32 | 679 |

TABLE A-19. - Injury experience and worktime data by general work location at miscellaneous nonmetallic mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|-------------------|---------|-------|----------------|----------------------|--------|-------------------|--------|-------------|-------------------|-------|-------|
| | Underground mines | | | Surface | | | Underground mines | | | Underground mines | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total | Mills | Total | Underground | Surface | Total | Mills |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | - | - | 14.07 |
| Alaska----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Arizona----- | - | - | - | - | - | - | - | - | - | - | - | 8.33 |
| Arkansas----- | - | - | - | - | - | - | - | - | - | - | - | 40.20 |
| California----- | 7.65 | 5.83 | 12.86 | 0.15 | 108.99 | 87.32 | 29.18 | 9.17 | 13.96 | 20.75 | 26.53 | 29.09 |
| Colorado----- | - | 4.43 | 3.58 | 2.14 | 61.21 | 49.09 | 29.12 | 68.90 | 43.10 | 56.26 | 53.17 | - |
| Connecticut----- | - | - | - | 102.51 | 98.52 | 101.97 | 130.73 | 107.49 | 79.82 | 96.35 | 16.06 | 32.83 |
| Delaware----- | - | - | - | 9.51 | - | - | 99.84 | 99.84 | 35.24 | 47.54 | 47.54 | 23.45 |
| Florida----- | - | - | - | - | - | - | - | - | - | - | - | 46.62 |
| Georgia----- | - | - | - | 2.09 | 1.60 | 84.03 | 66.82 | 30.14 | 41.54 | 51.54 | 31.33 | 33.70 |
| Hawaii----- | - | - | - | - | - | - | 58.63 | 80.45 | 58.63 | 80.45 | 58.63 | 65.77 |
| Idaho----- | - | - | - | - | - | - | - | 55.34 | 48.47 | 116.14 | 86.09 | - |
| Illinois----- | - | - | - | - | 97.85 | 47.38 | 92.24 | - | 92.24 | 21.51 | 55.15 | - |
| Indiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | 235.27 | - | 109.94 | - | 74.93 |
| Kentucky----- | - | - | - | - | - | - | 28.53 | 358.42 | 34.96 | 34.96 | - | 27.69 |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 45.80 | - | 45.80 |
| Maine----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Maryland----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Minnesota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Mississippi----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Missouri----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nebraska----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | 6.45 | 4.78 | 1.32 | 32.02 | 25.00 | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oregon----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | - | - | - |
| South Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermont----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | .85 | 1.94 | 1.05 | .46 | .25 | .31 | 49.28 | 27.16 | 45.31 | 34.52 | 4.51 | 29.89 |

TABLE A-19. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1970 - Continued

TABLE A-19. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1970 - Continued

| State | Active operations / | | | | Average men working daily | | | | | | Average days active | | | | | | | | |
|-----------------------|---------------------|-------|-------------|---------|---------------------------|----------------|----------------------|-------|-------------|-------------------|---------------------|----------------------|-------------------------|-------|-------------|-------------------|----------------|----------------------|-------------------------|
| | Mines | Mills | Underground | | Underground mines | | | Mills | Grand total | Underground miles | Open pit mines | Other surface mining | Total mining activities | Mills | Grand total | Underground miles | Open pit mines | Other surface mining | Total mining activities |
| | | | Underground | Surface | Total | Open pit mines | Other surface mining | | | | | | | | | | | | |
| Alabama----- | 2 | 2 | - | - | - | 14 | - | 48 | 62 | - | 267 | - | - | - | 267 | 252 | 284 | 252 | 223 |
| Alaska----- | 1 | 1 | 12 | 3 | 15 | 10 | 3 | 10 | 13 | 3 | 252 | 165 | - | - | 252 | 184 | 243 | 243 | 211 |
| Arizona----- | 34 | 10 | 63 | 18 | 81 | 31 | 22 | 134 | 199 | 51 | 147 | 286 | 138 | 362 | 277 | 257 | 315 | 315 | |
| Arkansas----- | 36 | 8 | 38 | 22 | 88 | 39 | 21 | 508 | 2,735 | 333 | 251 | 244 | 258 | 277 | - | - | - | 309 | |
| California----- | 94 | 38 | 66 | 22 | 88 | 37 | - | 134 | 76 | 181 | 210 | 291 | 181 | - | 313 | 313 | 313 | 313 | |
| Colorado----- | 22 | 5 | 83 | 14 | 97 | - | 8 | 8 | 34 | 42 | - | - | - | - | 286 | 286 | 286 | 286 | |
| Connecticut----- | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 286 | 286 | 286 | 286 | |
| Florida----- | 1 | - | - | - | - | - | - | 1 | 1 | 74 | 75 | 214 | 254 | - | - | - | - | 286 | |
| Georgia----- | 12 | 6 | 17 | 4 | 21 | 49 | - | 70 | 198 | 268 | 214 | - | - | - | 242 | 242 | 242 | 242 | |
| Hawaii----- | 20 | 4 | - | - | 51 | - | - | 51 | 22 | 73 | 22 | 126 | - | - | - | - | - | 141 | |
| Idaho----- | 9 | 5 | 4 | 4 | 164 | 4 | 23 | - | 27 | 22 | 49 | 80 | 98 | - | - | - | - | 147 | |
| Illinois----- | 13 | 5 | 146 | 18 | 164 | - | - | 164 | 159 | 323 | 289 | - | - | - | 289 | 289 | 329 | 329 | |
| Indiana----- | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 206 | |
| Kansas----- | 4 | 3 | - | - | - | - | - | 18 | - | 18 | 25 | 43 | - | - | 54 | 54 | 81 | 81 | |
| Kentucky----- | 7 | 1 | 66 | 18 | 84 | 7 | - | 91 | 18 | 109 | 209 | 50 | - | - | 196 | 196 | 232 | 232 | |
| Louisiana----- | - | 5 | - | - | - | - | - | - | 118 | 118 | - | - | - | - | - | - | - | 290 | |
| Maine----- | 4 | 2 | - | - | 2 | 4 | - | 4 | - | 6 | 110 | 136 | - | - | - | - | - | - | - |
| Maryland----- | 2 | 2 | - | - | - | 3 | 3 | 3 | 3 | 6 | 110 | 136 | - | - | - | - | - | - | - |
| Michigan----- | 20 | 3 | - | - | - | - | - | 17 | 17 | 3 | 3 | 6 | 146 | - | - | - | - | 219 | |
| Minnesota----- | 1 | 1 | - | - | - | 3 | - | 3 | 3 | 3 | 3 | 374 | - | - | 290 | 290 | 365 | 365 | |
| Mississippi----- | 1 | 1 | - | - | - | - | - | 2 | 2 | 208 | 210 | - | - | - | 60 | 60 | 330 | 330 | |
| Missouri----- | 18 | 19 | - | - | - | 192 | - | 192 | 192 | 192 | 212 | 258 | - | - | 252 | 252 | 252 | 252 | |
| Montana----- | 7 | 5 | - | - | - | 82 | - | 82 | 82 | 82 | 145 | 227 | - | - | 293 | 293 | 318 | 318 | |
| Nebraska----- | 1 | 1 | - | - | 1 | 1 | - | 1 | 1 | 1 | 2 | 3 | 14 | - | - | - | - | 225 | |
| Nevada----- | 36 | 15 | 11 | 3 | 14 | 140 | 11 | 165 | 165 | 165 | 374 | 539 | 266 | 209 | 377 | 377 | 270 | 270 | |
| New Hampshire----- | 2 | - | - | - | - | 2 | 1 | 2 | 2 | 2 | 97 | - | - | - | 10 | 10 | - | - | |
| New Jersey----- | 1 | 2 | - | - | - | - | - | 1 | 1 | 44 | 61 | 105 | - | - | 150 | 150 | 360 | 360 | |
| New Mexico----- | 20 | 12 | 3 | 1 | 4 | 40 | - | 40 | 103 | 206 | 212 | 252 | 252 | - | 200 | 184 | 269 | 269 | |
| New York----- | 6 | 10 | 64 | 13 | 77 | 26 | - | 188 | 206 | 421 | 627 | 279 | 279 | - | 260 | 260 | 254 | 254 | |
| North Carolina----- | 32 | 18 | 17 | 1 | 18 | 17 | - | 1 | 1 | 1 | 1 | 41 | - | - | 268 | 268 | 298 | 298 | |
| North Dakota----- | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 10 | - | - | |
| Ohio----- | 1 | - | - | - | - | 1 | - | 1 | 1 | 1 | 1 | 1 | - | - | 253 | 253 | 97 | 97 | |
| Oklahoma----- | 2 | 1 | - | - | - | 6 | - | 6 | 6 | 3 | 9 | - | - | - | 246 | 246 | 301 | 301 | |
| Oregon----- | 20 | 2 | - | - | - | 32 | - | 32 | 7 | 39 | 10 | - | - | - | 109 | 109 | 188 | 188 | |
| Pennsylvania----- | 4 | 2 | - | - | - | 6 | - | 6 | 4 | 85 | 128 | - | - | - | 226 | 226 | 303 | 303 | |
| South Carolina----- | 13 | 5 | - | - | - | 43 | - | 74 | 74 | 10 | 84 | - | - | - | 124 | 124 | 286 | 286 | |
| Tennessee----- | 53 | 1 | - | - | - | 23 | - | 23 | 23 | 23 | 7 | 228 | 301 | - | 254 | 254 | 305 | 305 | |
| Texas----- | 18 | 14 | 2 | - | - | 64 | 9 | 73 | 73 | 264 | 96 | 269 | 360 | - | 322 | 322 | 297 | 297 | |
| Utah----- | 37 | 6 | 191 | 51 | 242 | 18 | 4 | 106 | 224 | 330 | 281 | 249 | - | - | 230 | 230 | 243 | 243 | |
| Vermont----- | 4 | 5 | 38 | 9 | 47 | 59 | - | 47 | 152 | 199 | 152 | 245 | - | - | 263 | 263 | 286 | 286 | |
| Virginia----- | 8 | 7 | 2 | - | - | 7 | 7 | 7 | 21 | 28 | 220 | - | - | - | 270 | 270 | 261 | 261 | |
| Washington----- | 7 | 7 | 2 | 286 | 59 | 345 | 26 | - | 371 | 455 | 826 | 307 | 258 | - | 304 | 304 | 332 | 332 | |
| Wyoming----- | 11 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total or average----- | 591 | 236 | 1,069 | 234 | 1,103 | 1,816 | 88 | 3,207 | 6,769 | 9,976 | 274 | 228 | 314 | 249 | 249 | 299 | 299 | 299 | 299 |

TABLE A-19. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1970 - Continued

| State | Man-days worked | | | | | | | | | | Man-hours worked | | | | | | | | |
|---------------------|-------------------|---------|---------|-------------------------|----------------------|---------|-------------------|-----------|-----------|-------------------|------------------|-----------|-------------------------|-----------|----------------------|------------|------------|------------|------------|
| | Underground mines | | | Total mining activities | | | Underground mines | | | Underground mines | | | Open pit mines | | Other surface mining | | | | |
| | Under-ground | Surface | Total | Open pit mines | Other surface mining | Mills | Under-ground | Surface | Total | Under-ground | Surface | Total | Total mining activities | Mills | Grand total | | | | |
| Alabama----- | - | - | - | 3,744 | 13,633 | 17,397 | - | - | - | 32,900 | 109,226 | 142,126 | 142,126 | 142,126 | 142,126 | | | | |
| Alaska----- | - | - | - | 2,520 | 756 | 3,276 | - | - | - | 20,160 | 6,048 | 26,208 | 26,208 | 26,208 | 26,208 | | | | |
| Arizona----- | 4,295 | 4,284 | 8,575 | 13,393 | 11,677 | 29,177 | 27,487 | 6,854 | 34,272 | 108,993 | - | 143,251 | 96,946 | 240,211 | 240,211 | | | | |
| Arkansas----- | 5,093 | 20,352 | 21,451 | 7,963 | 32,667 | 48,034 | 80,641 | 128,457 | 34,358 | 162,815 | 34,342 | 225,546 | 385,468 | 646,729 | 646,729 | | | | |
| California----- | 16,358 | 21,451 | 38,006 | 5,833 | 103,053 | 130,327 | 86,897 | 130,702 | 40,744 | 171,446 | 825,406 | 47,167 | 1,044,019 | 5,788,899 | 6,777,918 | 6,777,918 | | | |
| Connecticut----- | 24,387 | 28,193 | 53,580 | 6,680 | 2,504 | 36,873 | 23,491 | 58,364 | 53,546 | 225,546 | 279,982 | 187,331 | 467,023 | 467,023 | 467,023 | 467,023 | | | |
| Colorado----- | - | - | - | - | - | - | 10,642 | 13,164 | - | - | - | 20,032 | 83,136 | 105,168 | 105,168 | 105,168 | 105,168 | | |
| Florida----- | - | - | - | - | - | - | 286 | 286 | 21,450 | 73,298 | 35,700 | 9,200 | - | 2,288 | 169,312 | 171,600 | 171,600 | | |
| Georgia----- | 3,570 | 920 | 4,490 | 12,445 | - | 16,935 | 56,363 | 73,298 | - | 44,900 | 99,552 | - | 144,426 | 47,8704 | 623,156 | 623,156 | | | |
| Hawaii----- | - | - | - | 6,407 | - | 6,407 | - | - | - | 51,167 | - | - | 51,167 | 24,860 | 76,027 | 76,027 | | | |
| Idaho----- | - | - | - | 2,259 | 2,259 | 5,808 | 5,808 | 5,808 | 2,560 | 51,167 | 18,070 | - | 20,630 | 25,832 | 46,462 | 46,462 | | | |
| Illinois----- | 42,154 | 5,277 | 47,431 | - | 47,431 | 52,349 | 99,780 | 337,242 | 42,216 | 379,458 | - | - | 379,458 | 418,401 | 797,859 | 797,859 | | | |
| Indiana----- | - | - | - | - | - | 206 | 206 | 206 | - | - | - | - | - | 1,646 | 1,646 | 1,646 | 1,646 | | |
| Kansas----- | - | - | - | - | - | 971 | 2,032 | 3,003 | - | - | 8,501 | - | 18,191 | 26,692 | 43,883 | 43,883 | | | |
| Kentucky----- | 13,719 | 3,807 | 17,526 | 349 | 17,875 | 4,176 | 22,051 | 109,751 | 30,470 | 140,221 | 2,790 | - | 143,011 | 27,884 | 180,525 | 180,525 | | | |
| Louisiana----- | - | - | - | 220 | 542 | 762 | 34,222 | 34,222 | - | 1,758 | - | - | 1,758 | 283,854 | 283,854 | 283,854 | 283,854 | | |
| Maine----- | - | - | - | 438 | 438 | 438 | - | - | - | 6,105 | - | - | 6,105 | 6,105 | 6,105 | 6,105 | 6,105 | 6,105 | |
| Michigan----- | - | - | - | 4,925 | 131,170 | 136,195 | - | - | - | 3,504 | - | - | 3,504 | 5,264 | 8,768 | 8,768 | 8,768 | 8,768 | |
| Minnesota----- | - | - | - | 180 | 990 | 1,170 | - | - | - | 1,440 | - | - | 1,440 | 39,420 | 1,049,369 | 1,049,369 | 1,049,369 | 1,049,369 | |
| Mississippi----- | - | - | - | 504 | 504 | 52,416 | 52,920 | 52,920 | - | - | 4,032 | - | 4,032 | 7,320 | 1,360 | 7,320 | 7,320 | 7,320 | 7,320 |
| Missouri----- | - | - | - | 49,558 | 49,558 | 55,650 | 55,650 | 55,650 | 105,208 | - | - | 405,485 | 405,485 | 458,013 | 458,013 | 458,013 | 458,013 | | |
| Montana----- | - | - | - | 23,995 | 23,995 | 46,155 | 70,150 | 70,150 | - | - | - | 193,448 | 193,448 | 369,878 | 369,878 | 369,878 | 369,878 | | |
| Nebraska----- | 2,820 | 900 | 3,720 | 4,144 | 29,234 | 100,919 | 138,017 | 22,440 | 7,200 | 29,640 | 241,503 | 33,153 | - | 304,256 | 807,803 | 1,112,059 | 1,112,059 | 1,112,059 | 1,112,059 |
| New Hampshire----- | - | - | - | 20 | 20 | 20 | - | - | - | 160 | - | - | 160 | 1,200 | 276,800 | 276,800 | 276,800 | 276,800 | |
| New Jersey----- | - | - | - | 150 | 150 | 34,600 | 34,750 | 34,750 | - | - | - | - | - | 64,070 | 419,328 | 197,388 | 197,388 | 197,388 | 197,388 |
| New Mexico----- | 600 | 800 | 19,380 | 7,269 | 8,169 | 8,169 | 66,393 | 66,393 | 4,800 | 1,600 | 6,400 | 56,760 | 209,190 | 549,985 | 759,175 | 759,175 | 759,175 | 759,175 | |
| North Carolina----- | 3,763 | 4,705 | 7,478 | 6,768 | 26,148 | 97,736 | 68,928 | 95,076 | 124,937 | 30,104 | 155,041 | 54,149 | - | 454,661 | 1,012,707 | 1,467,368 | 1,467,368 | 1,467,368 | 1,467,368 |
| North Dakota----- | 313 | 5,018 | 50,216 | 55,234 | 125,491 | 180,725 | 180,725 | 37,636 | 2,504 | 40,140 | 41,452 | 41,452 | - | 324 | - | 324 | 324 | 324 | 324 |
| Ohio----- | - | - | - | 41 | 41 | 10 | - | - | - | 80 | - | - | 80 | - | 80 | 80 | 80 | 80 | |
| Pennsylvania----- | - | - | - | 10 | 10 | 1,518 | - | - | - | 11,863 | - | - | 11,863 | 18,833 | 2,328 | 14,113 | 14,113 | 14,113 | 14,113 |
| Rhode Island----- | - | - | - | 7,868 | 7,868 | 7,868 | 2,101 | 9,975 | - | 62,941 | - | - | 62,941 | 16,857 | 62,941 | 62,941 | 62,941 | 62,941 | 62,941 |
| Tennessee----- | 51,183 | 13,826 | 65,009 | 13,213 | 2,902 | 2,902 | 23,608 | 23,608 | 1,384 | 409,508 | 320,114 | 16,862 | 7,369 | 544,345 | 186,768 | 731,113 | 731,113 | 731,113 | 731,113 |
| Texas----- | 10,621 | 2,592 | 13,213 | 14,706 | 11,513 | 11,513 | 64,163 | 64,163 | 92,080 | 86,215 | 20,991 | 117,637 | - | 224,863 | 55,567 | 276,410 | 276,410 | 276,410 | 276,410 |
| Virginia----- | - | - | - | 1,540 | 1,540 | 1,540 | 5,487 | 5,487 | 52,573 | - | - | 93,389 | - | 93,389 | 333,012 | 426,401 | 426,401 | 426,401 | 426,401 |
| Washington----- | 87,450 | 18,530 | 105,380 | 6,02 | 112,692 | 151,081 | 263,163 | 699,592 | 148,241 | 847,833 | 59,986 | - | 12,320 | - | 12,320 | 43,895 | 56,215 | 56,215 | 56,215 |
| West Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - | - | 907,819 | 1,211,096 | 2,118,915 | 2,118,915 | 2,118,915 | 2,118,915 |
| Total----- | 293,208 | 64,179 | 357,387 | 413,406 | 27,618 | 798,411 | 2,921,427 | 2,819,838 | 2,333,811 | 513,539 | 2,869,350 | 3,360,183 | 221,949 | 6,451,482 | 16,266,512 | 22,717,994 | 22,717,994 | 22,717,994 | 22,717,994 |

TABLE A-20. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1970

| State | Fatal | | | | | | Nonfatal | | | | | |
|------------------|---------------------|---------|-------|----------------|-------------------------|-------------|-------------------|---------|-------|----------------------|-------------------------|-------------|
| | Underground mines / | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Mills | Total mining activities | Grand total | Underground | Surface | Total | Other surface mining | Total mining activities | Grand total |
| Injuries | | | | | | | | | | | | |
| Alabama-- | - | - | - | 1 | - | 1 | - | - | - | 1 | - | 18 |
| Alaska-- | - | - | - | - | - | 1 | - | - | - | - | - | 5 |
| Arizona-- | - | - | - | 1 | 1 | 3 | 17 | 2 | 19 | 37 | 56 | 269 |
| Arlansas-- | 1 | 1 | 2 | 8 | 2 | 10 | 46 | 8 | 56 | 213 | 52 | 52 |
| California-- | 1 | 1 | 2 | 22 | 3 | 25 | 8 | 3 | 33 | 19 | 3 | 6 |
| Colorado-- | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| Connecticut-- | - | - | - | - | - | - | - | - | - | - | - | - |
| Delaware-- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida-- | - | - | - | 1 | 1 | 1 | - | - | - | 12 | 12 | 43 |
| Georgia-- | - | - | 1 | 1 | 2 | 3 | - | - | - | 48 | 51 | 177 |
| Hawaii-- | - | - | 1 | 1 | 2 | 3 | - | - | - | 3 | 3 | 5 |
| Idaho-- | - | 1 | 1 | - | - | - | - | - | - | 4 | 4 | 8 |
| Illinois-- | - | - | - | 33 | 2 | 35 | 1 | 1 | 1 | 36 | 1 | 48 |
| Indiana-- | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 12 |
| Iowa-- | - | - | - | - | - | - | 6 | 6 | 6 | 6 | 6 | 43 |
| Kansas-- | - | - | - | - | 3 | - | 3 | 2 | 2 | 5 | 5 | 60 |
| Kentucky-- | - | - | - | 4 | 4 | 4 | - | - | - | 8 | 8 | 16 |
| Louisiana-- | 5 | 1 | 6 | 15 | 1 | 16 | - | 39 | 39 | 55 | 42 | 97 |
| Maine-- | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 |
| Maryland-- | - | - | - | - | - | - | - | - | - | 1 | 1 | 16 |
| Massachusetts-- | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 |
| Michigan-- | 2 | 2 | 4 | - | 9 | 8 | 17 | 2 | 2 | 19 | 68 | 87 |
| Minesota-- | - | - | - | - | - | - | - | - | - | 11 | 11 | 11 |
| Mississippi-- | - | - | - | - | - | - | - | - | - | 5 | 5 | 28 |
| Missouri-- | - | - | - | - | - | - | - | - | - | 32 | 32 | 30 |
| Montana-- | - | - | - | - | - | - | - | - | - | 6 | 6 | 62 |
| Nebraska-- | - | - | - | - | - | - | - | - | - | 10 | 10 | 28 |
| Nevada-- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Hampshire-- | - | - | - | - | - | - | - | - | - | 8 | 8 | 51 |
| New Jersey-- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico-- | - | - | 2 | - | - | - | - | - | - | 1 | 1 | 25 |
| New York-- | - | 2 | 1 | - | 1 | 2 | 18 | 29 | 147 | 147 | 147 | 185 |
| North Carolina-- | - | 1 | 1 | 1 | 1 | 1 | 10 | 47 | 8 | 55 | 66 | 121 |
| North Dakota-- | - | - | - | - | - | - | - | - | - | 11 | 11 | 101 |
| Ohio-- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma-- | - | - | - | - | - | - | - | - | - | 52 | 52 | 113 |
| Oregon-- | - | - | - | - | - | - | - | - | - | 3 | 3 | 22 |
| Pennsylvania-- | - | - | - | - | - | - | - | - | - | 3 | 3 | 4 |
| South Carolina-- | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 |
| Tennessee-- | - | - | - | - | - | - | - | - | - | 16 | 16 | 39 |
| Texas-- | - | 2 | 3 | - | 3 | 3 | - | - | - | 20 | 20 | 47 |
| Utah-- | 1 | 1 | 1 | 35 | 6 | 41 | 14 | 14 | 14 | 55 | 22 | 77 |
| Vermont-- | - | - | - | - | 8 | - | 8 | 2 | 2 | 10 | 12 | 22 |
| Virginia-- | - | - | - | - | 1 | - | 1 | 1 | 1 | 2 | 32 | 34 |
| Washington-- | - | - | - | - | - | - | - | - | - | 3 | 4 | 7 |
| West Virginia-- | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 |
| Wisconsin-- | - | - | - | - | - | - | - | - | - | 11 | 11 | 34 |
| Wyoming-- | - | - | - | - | - | - | - | - | - | 23 | 23 | 2394 |
| Total----- | 12 | 1 | 13 | 5 | - | 18 | 10 | 28 | 371 | 71 | 442 | 1,595 |
| | | | | | | | | | | 59 | 799 | 2,394 |

TABLE A-20. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1970 - Continued

| State | Fatal | | | | Nonfatal | | | | Grand total | |
|---------------------------------------|-------------------|---------|---------|----------------------|-------------------------|--------|-------------|---------|-------------|--|
| | Underground mines | | Surface | | Mills | | Grand total | | | |
| | Underground | Surface | Total | Other surface mining | Total mining activities | Mills | Underground | Surface | | |
| Frequency rates per million man-hours | | | | | | | | | | |
| Alabama----- | - | - | - | 3.93 | - | 3.75 | - | 0.61 | - | |
| Alaska----- | - | - | - | - | - | - | - | - | - | |
| Arizona----- | - | - | - | - | - | 36.47 | - | - | - | |
| Arkansas----- | - | - | - | - | - | 108.99 | 87.32 | 29.18 | 5.61 | |
| California----- | .67 | - | - | - | - | 104.41 | 9.95 | 9.41 | 9.41 | |
| Colorado----- | 2.33 | 2.41 | 2.37 | .11 | 59.17 | 44.49 | 55.51 | 39.75 | 25.17 | |
| Connecticut----- | - | - | - | 9.59 | 6.90 | 99.72 | 92.28 | 46.30 | 37.75 | |
| Delaware----- | - | - | - | - | - | - | - | 73.76 | 73.76 | |
| Florida----- | - | - | - | .19 | .11 | - | - | - | - | |
| Georgia----- | .63 | .14 | .23 | - | 86.03 | - | 66.82 | 31.16 | 31.54 | |
| Hawaii----- | - | - | - | - | - | - | - | 57.49 | 57.49 | |
| Idaho----- | 1.57 | - | - | 1.35 | - | - | - | 6.28 | 6.28 | |
| Illinois----- | - | - | - | - | - | 97.85 | 47.38 | 92.24 | 6.26 | |
| Indiana----- | - | - | - | - | - | - | - | 10.06 | 69.08 | |
| Iowa----- | - | - | - | - | - | - | - | 10.17 | 10.17 | |
| Kansas----- | - | - | - | - | - | - | - | 18.50 | 5.21 | |
| Kentucky----- | - | - | - | - | - | - | - | 16.38 | 16.38 | |
| Louisiana----- | - | - | - | - | - | - | - | 28.53 | 22.81 | |
| Maine----- | - | - | - | - | - | - | - | - | 19.87 | |
| Maryland----- | - | - | - | - | - | - | - | - | - | |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | |
| Michigan----- | 4.29 | 2.76 | 4.29 | .48 | 28.31 | 53.79 | 36.43 | 11.13 | 11.13 | |
| Minnesota----- | - | - | - | - | - | - | - | - | - | |
| Mississippi----- | .58 | .36 | .58 | .36 | 47.83 | 28.70 | 42.27 | - | 22.42 | |
| Missouri----- | .73 | .24 | .73 | .24 | 40.18 | 22.65 | 34.50 | - | 43.93 | |
| Montana----- | - | .37 | .28 | .28 | 26.57 | - | - | - | 23.66 | |
| Nebraska----- | - | - | - | - | - | - | - | - | - | |
| Nevada----- | - | - | - | - | - | - | - | - | - | |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | |
| New Jersey----- | .81 | .56 | .81 | .56 | 47.83 | 28.70 | 42.27 | - | 36.17 | |
| New Mexico----- | - | .63 | .37 | .28 | 40.18 | 22.65 | 34.50 | - | 41.28 | |
| New York----- | - | - | - | - | 26.57 | - | - | - | 34.51 | |
| North Carolina----- | - | - | - | - | - | - | - | - | 42.46 | |
| North Dakota----- | - | - | - | - | - | - | - | - | 24.91 | |
| Ohio----- | - | - | - | - | - | - | - | - | 11.51 | |
| Oklahoma----- | - | - | - | 1.37 | 1.07 | 40.14 | 22.57 | 37.24 | - | |
| Oregon----- | - | - | - | - | - | - | - | - | - | |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | |
| South Carolina----- | - | - | - | - | - | - | - | - | - | |
| South Dakota----- | - | - | - | - | - | - | - | - | - | |
| Tennessee----- | - | - | - | - | - | - | - | - | - | |
| Texas----- | .57 | .88 | .72 | .72 | 101.46 | 66.30 | 16.31 | 7.45 | - | |
| Utah----- | 2.72 | .80 | .47 | .47 | 47.31 | 27.32 | 42.73 | 59.70 | - | |
| Virginia----- | 1.04 | - | - | - | - | - | - | - | - | |
| Vermont----- | - | - | - | - | - | - | - | - | - | |
| Washington----- | - | - | - | - | - | - | - | - | - | |
| West Virginia----- | - | - | - | - | - | - | - | - | - | |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | |
| Wyoming----- | - | - | - | - | - | - | - | - | - | |
| Combined rate----- | 1.40 | .35 | 1.14 | .32 | - | .56 | .16 | .30 | 24.65 | |
| | | | | | | 43.14 | 24.93 | 38.61 | 18.93 | |
| | | | | | | | | 11.30 | 25.60 | |

TABLE A-20. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1970 - Continued

TABLE A-20. - Injury experience and worktime data by general work location at nonmetallic mines and mills in the United States, by State, 1970 - Continued

| State | Active operations | | | | | | Average men working daily | | | | | | Average days active | | | | | | Grand total | | | | | | Underground mines | | | | | | Open pit mines | | | | | | Other surface mining | | | | | | Total mining activities | | |
|---------------------|-------------------|-------|-------|---------------|-------|-------|---------------------------|-------|-------|---------------|-------|-------|---------------------|-------|-------|----------------------|-------|-------|-------------------------|-------|-------|-------------|-------|-------|-------------------|-------|-------|----------------|-------|-------|----------------------|-------|-------|-------------------------|-------|-------|----------------------|--|--|--|--|--|-------------------------|--|--|
| | Underground mines | | | Surface mines | | | Underground mines | | | Surface mines | | | Open pit mines | | | Other surface mining | | | Total mining activities | | | Grand total | | | Underground mines | | | Open pit mines | | | Other surface mining | | | Total mining activities | | | Mills | | | | | | | | |
| | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | Mills | | | | | | | | | | | | | |
| Alabama----- | - | 43 | 27 | - | - | - | - | - | - | 169 | 4 | 153 | 617 | 770 | - | - | - | - | 206 | 36 | 211 | 252 | 279 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Alaska----- | - | 1 | 1 | 15 | 12 | 3 | - | - | 15 | 10 | 10 | 10 | 124 | 241 | 272 | 257 | 286 | 179 | - | - | 252 | 252 | 252 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| Arizona----- | 2 | 63 | 17 | 63 | 18 | 81 | 18 | 138 | 22 | 124 | 124 | 124 | 621 | 787 | 3,081 | 963 | 251 | 179 | 362 | 179 | 191 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| Arkansas----- | 2 | 164 | 73 | 69 | 25 | 94 | 123 | 172 | 7 | 123 | 172 | 172 | 19 | 19 | 296 | 185 | 481 | 240 | 230 | 249 | 233 | 220 | 254 | 254 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Colorado----- | 13 | 71 | 13 | 107 | 16 | 123 | - | - | - | - | - | - | - | - | - | 19 | 56 | 75 | 257 | 259 | - | - | 126 | 365 | 300 | 181 | 280 | - | - | - | - | - | - | | | | | | | | | | | | |
| Connecticut----- | - | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| Delaware----- | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| Florida----- | - | 40 | 35 | 35 | 21 | 4 | 21 | - | - | 1,445 | 1 | 1,446 | 2,077 | 3,523 | 1 | 1 | 1 | 1 | 2 | - | - | 293 | 286 | 313 | - | 313 | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Georgia----- | 5 | 72 | 44 | 17 | 4 | 21 | 600 | 600 | - | 701 | 2,888 | 2,888 | 701 | 2,888 | 2,888 | 2,888 | 2,888 | 2,888 | 2,888 | 2,888 | 2,888 | 214 | 278 | 276 | 306 | 276 | 276 | 276 | 276 | 276 | 276 | 276 | 276 | 276 | | | | | | | | | | | |
| Hawaii----- | - | 22 | 5 | - | - | - | - | - | - | 52 | 1 | 53 | 26 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 126 | 126 | 126 | 160 | 160 | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Idaho----- | 1 | 21 | 8 | 4 | - | - | 4 | 164 | 18 | 164 | 83 | 83 | - | - | - | 368 | 65 | 437 | 80 | 224 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Illinois----- | 13 | 28 | 24 | 35 | 9 | 44 | 44 | 580 | 65 | 580 | 109 | 109 | - | - | - | 471 | 760 | 1,007 | 289 | 211 | 211 | 263 | 263 | 269 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Indiana----- | 3 | 28 | 14 | 12 | 12 | 3 | 15 | 143 | 20 | 143 | 138 | 138 | - | - | - | 346 | 504 | 270 | 281 | 281 | 280 | 224 | 224 | 224 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Iowa----- | 1 | 23 | 21 | 12 | 12 | 20 | 20 | 88 | 81 | 88 | 19 | 19 | - | - | - | 188 | 650 | 260 | 109 | 109 | 109 | 353 | 353 | 255 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Kansas----- | 5 | 29 | 18 | 68 | 18 | 84 | 132 | - | - | 216 | 89 | 89 | - | - | - | 216 | 89 | 305 | 209 | 163 | 163 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Kentucky----- | 4 | 49 | 11 | 66 | 18 | 84 | 122 | 405 | 74 | 838 | 1,317 | 693 | - | - | - | 33 | 19 | 2,010 | 2,010 | 2,010 | 2,010 | 308 | 293 | 293 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Louisiana----- | 5 | 35 | 18 | 283 | 122 | 205 | 2 | 35 | 33 | - | - | - | - | - | - | 15 | 133 | 56 | 110 | 110 | 110 | 151 | 151 | 245 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Maine----- | 1 | 9 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | 15 | 166 | 166 | 166 | 166 | 166 | 209 | 209 | 247 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Maryland----- | - | 13 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | 15 | 46 | 61 | 61 | 61 | 61 | 204 | 204 | 204 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Massachusetts----- | - | 3 | 22 | 165 | 80 | 245 | - | - | - | - | - | - | - | - | - | 31 | 368 | 1,251 | 1,251 | 1,251 | 1,251 | 229 | 229 | 229 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Michigan----- | 4 | 39 | 22 | 5 | 25 | 19 | - | - | - | - | - | - | - | - | - | 19 | 19 | 132 | 132 | 132 | 132 | 120 | 120 | 120 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Minnesota----- | - | 39 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | 161 | 2 | 163 | 550 | 713 | 713 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Mississippi----- | - | 107 | 24 | - | - | - | - | - | - | 408 | - | - | - | - | - | 219 | 197 | 416 | 416 | 416 | 416 | 237 | 237 | 237 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Missouri----- | - | 2 | 18 | 10 | 76 | 9 | 85 | 134 | - | 8 | - | - | 8 | - | - | 8 | 6 | 14 | 14 | 14 | 14 | 188 | 188 | 188 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Montana----- | - | 5 | 4 | 42 | 18 | 17 | 6 | - | - | 171 | 13 | 13 | 13 | 13 | - | 207 | 532 | 739 | 739 | 739 | 739 | 327 | 327 | 327 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Nebraska----- | - | 4 | 42 | 18 | 17 | 6 | - | - | - | - | - | - | - | - | - | 8 | 8 | 26 | 26 | 26 | 26 | 36 | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Nevada----- | - | 5 | 2 | 26 | 13 | 9 | - | - | - | - | - | - | - | - | - | 38 | 1 | 39 | 281 | 320 | 320 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| New Hampshire----- | - | 11 | 30 | 25 | 887 | 360 | 1,247 | 60 | 230 | - | - | - | 1,247 | 60 | 230 | - | 1,309 | 853 | 2,162 | 2,162 | 2,162 | 2,162 | 349 | 349 | 349 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| New Jersey----- | - | 21 | 30 | 436 | 194 | 630 | 116 | 116 | 18 | - | - | - | 436 | 436 | 436 | 436 | 764 | 1,955 | 1,955 | 1,955 | 1,955 | 1,955 | 299 | 299 | 299 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| New Mexico----- | - | 75 | 40 | 17 | 1 | 18 | 398 | - | - | 398 | 3 | 3 | 3 | 3 | - | 416 | 1,278 | 1,694 | 1,694 | 1,694 | 1,694 | 279 | 279 | 279 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| New York----- | - | 5 | 2 | 416 | 78 | 494 | 274 | 274 | 13 | - | - | - | 97 | 97 | 4 | 101 | 367 | 468 | 468 | 468 | 468 | 255 | 255 | 255 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| North Carolina----- | - | 8 | 115 | 42 | 13 | 9 | 4 | - | - | - | - | - | - | - | - | 62 | 62 | 68 | 68 | 68 | 68 | 104 | 104 | 104 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| North Dakota----- | - | 5 | 2 | 26 | 13 | 9 | 4 | - | - | - | - | - | - | - | - | 77 | - | 778 | 778 | 778 | 778 | 241 | 241 | 241 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Ohio----- | - | 115 | 42 | 13 | 9 | 4 | - | - | - | - | - | - | - | - | - | 165 | 165 | 857 | 857 | 857 | 857 | 1,022 | 1,022 | 1,022 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Oklahoma----- | - | 3 | 2 | 38 | 21 | 105 | 105 | 105 | 151 | - | - | - | 374 | 374 | 374 | 374 | 1,012 | 1,430 | 1,430 | 1,430 | 1,430 | 1,430 | 304 | 304 | 304 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Oregon----- | - | 1 | 34 | 9 | 4 | 2 | - | - | - | - | - | - | - | - | - | 97 | 4 | 101 | 101 | 101 | 101 | 411 | 411 | 411 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Pennsylvania----- | - | 9 | 66 | 30 | 60 | 17 | 77 | - | - | - | - | - | - | - | - | 69 | 3 | 164 | 164 | 164 | 164 | 399 | 399 | 399 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| South Carolina----- | - | 58 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | 114 | - | 114 | 80 | 80 | 80 | 194 | 194 | 194 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Tennessee----- | - | 62 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | 357 | - | 357 | 661 | 661 | 661 | 305 | 305 | 305 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Texas----- | - | 132 | 61 | 30 | 14 | 44 | - | - | - | - | - | - | - | - | - | 454 | 151 | 26 | 1,240 | 1,240 | 1,240 | 2,954 | 2,954 | 2,954 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Utah----- | - | 33 | 38 | 21 | 105 | 105 | 105 | 105 | 151 | - | - | - | - | - | - | 47 | - | 47 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | 1,042 | | | | | | | | |
| Vermont----- | - | 3 | 2 | 5 | 38 | 9 | 47 | - | - | - | - | - | - | - | - | 61 | - | 61 | 108 | 108 | 108 | 224 | 224 | 224 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Virginia----- | - | 1 | 30 | 2 | 55 | 14 | 69 | - | - | - | - | - | - | - | - | 14 | 3 | 3 | 164 | 164 | 164 | 332 | 332 | 332 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Washington----- | - | 21 | 2 | 30 | 7 | 37 | - | - | - | - | - | - | - | - | - | 11 | 11 | 11 | 63 | 63 | 63 | 21 | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| West Virginia----- | - | 2 | 9 | 6 | 30 | 7 | 37 | - | - | - | - | - | - | - | - | 6 | 6 | 6 | 15 | 15 | 15 | 21 | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | |
| Wisconsin----- | - | 2 | 2 | - | 20 | 286 | 59 | 345 | - | - | 205 | - | - | - | - | 590 | - | - | 902 | 902 | 902 | 1,452 | 1,452 | 1,452 | 307 | 307 | 307 | - | - | - | - | - | | | | | | | | | | | | | |

TABLE A-20. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1970 - Continued

| State | Man-days worked | | | | | | Man-hours worked | | | | | | |
|---------------------|-------------------|---------|-----------|----------------|---------|-----------|-------------------|------------|-----------|----------------------|-------------------------|------------|------------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | | |
| | Underground | Surface | Total | Mills | Total | Mills | Underground | Surface | Total | Other surface mining | Total mining activities | Mills | |
| Alabama----- | - | - | 30,759 | 1,460 | 32,219 | 172,163 | 205,382 | - | - | 254,752 | 11,680 | 266,432 | |
| Alaska----- | - | - | 2,520 | 2,520 | 2,520 | 756 | 5,276 | - | 20,160 | 6,048 | 20,160 | 6,048 | |
| Arizona----- | 4,427 | 4,284 | 22,218 | 26,307 | 54,809 | 27,418 | 6,854 | 34,772 | 178,343 | 212,615 | 247,520 | 460,135 | |
| Arkansas----- | 16,057 | 20,352 | 24,664 | 7,963 | 183,385 | 126,364 | 34,358 | 162,815 | 200,914 | 64,104 | 427,833 | 1,467,743 | |
| California----- | 16,920 | 5,619 | 142,612 | 17,950 | 183,101 | 1,077,771 | 135,196 | 44,949 | 180,145 | 1,157,168 | 145,991 | 1,483,304 | |
| Colorado----- | 27,579 | 4,066 | 31,645 | 365 | 53,620 | 51,883 | 105,503 | 220,619 | 32,511 | 253,130 | 2,600 | 428,509 | |
| Connecticut----- | - | - | 4,928 | 4,928 | 13,832 | 18,750 | - | - | - | 40,671 | 104,776 | 84,356 | |
| Delaware----- | - | - | 313 | 313 | 626 | 513 | - | - | - | 2,504 | 2,504 | 1,647,986 | |
| Florida----- | - | - | 423,150 | 286 | 423,636 | 665,881 | 1,089,517 | - | - | 3,393,418 | 2,288 | 5,326,264 | |
| Georgia----- | 920 | 4,490 | 188,748 | - | 193,238 | 883,666 | 1,076,904 | 35,700 | 9,200 | 44,900 | 1,540,504 | 8,719,682 | |
| Hawaii----- | - | - | 6,535 | 120 | 6,655 | 4,147 | 10,802 | 2,560 | - | 52,187 | 360 | 1,583,404 | |
| Idaho----- | 320 | - | 320 | 77,881 | - | 78,201 | 12,536 | 2,560 | 636,776 | - | 639,336 | 52,547 | |
| Illinois----- | 42,154 | 5,277 | 47,431 | 17,528 | - | 206,263 | 32,222 | 42,216 | 379,458 | - | 521,172 | 1,667,152 | |
| Indiana----- | 9,225 | 2,996 | 11,521 | 12,880 | - | 24,401 | 14,023 | 165,324 | 18,674 | 93,98 | 191,955 | 2,188,274 | |
| Iowa----- | 3,245 | 811 | 40,156 | 40,156 | 44,213 | 88,448 | 207,361 | 4,491 | 41,134 | 32,354 | 356,808 | 1,738,049 | |
| Kansas----- | 17,156 | 5,142 | 22,898 | 8,839 | 36,453 | 180,956 | 219,409 | 142,050 | 65,768 | 183,184 | 69,828 | 52,187 | |
| Kentucky----- | 13,719 | 3,807 | 17,526 | 39,085 | 26,683 | 109,751 | 109,751 | 30,470 | 140,221 | 175,328 | 306,740 | 1,431,309 | |
| Louisiana----- | 80,345 | 35,476 | 115,821 | 22,798 | 245,202 | 192,821 | 575,874 | 64,010 | 281,410 | 92,240 | 183,199 | 3,067,853 | |
| Maine----- | 220 | - | 220 | 5,994 | - | 5,994 | 10,256 | 1,758 | - | 4,882 | 1,962,334 | 53,187 | |
| Maryland----- | - | - | 6,909 | 32,840 | 39,749 | 15,241 | 60,909 | - | - | 55,513 | 265,211 | 8,940 | |
| Massachusetts----- | - | - | 3,060 | 3,060 | 18,301 | 22,402 | 9,667 | 317,912 | 148,713 | 25,267 | 320,774 | 3,211,926 | |
| Michigan----- | 39,118 | 16,964 | 56,082 | 22,402 | 49,854 | 508,025 | 36,661 | - | - | 179,692 | 77,516 | 4,167,193 | |
| Minnesota----- | - | - | 2,277 | 2,277 | 36,384 | 2,277 | 36,384 | - | - | 18,216 | 18,216 | 2,293,305 | |
| Mississippi----- | - | - | 27,864 | 504 | 28,368 | 149,939 | 178,307 | - | - | 223,04 | 4,032 | 1,227,036 | |
| Missouri----- | - | - | 89,352 | - | 89,352 | 78,012 | 167,364 | - | - | 728,490 | - | 533,187 | |
| Montana----- | 17,970 | 2,133 | 20,103 | 30,651 | - | 50,754 | 59,576 | 110,330 | 14,3,944 | 17,064 | 92,240 | 3,583,406 | |
| Nebraska----- | - | - | 1,507 | 1,507 | 1,507 | 1,507 | 1,507 | 2,903 | - | 12,580 | 12,580 | 1,363,896 | |
| Nevada----- | 2,940 | 975 | 3,915 | 35,270 | 4,254 | 141,820 | 183,259 | 23,400 | - | 31,200 | 289,801 | 4,782,169 | |
| New Hampshire----- | - | - | 581 | - | 581 | 6,974 | 7,555 | 317,912 | 148,713 | 34,033 | 352,034 | 1,137,369 | |
| New Jersey----- | - | - | 7,621 | 7,621 | 45,331 | 77,192 | 89,790 | 2,467,285 | 1,010,539 | 4,646 | 4,646 | 4,646 | |
| New Mexico----- | 308,411 | 126,318 | 436,729 | 10,240 | 182 | 257,861 | 703,192 | 44,555 | 3,477,824 | 61,407 | 1,200 | 61,407 | |
| New York----- | 115,152 | 54,221 | 23,537 | 5,374 | 198,784 | 313,115 | 511,899 | 92,055 | 1,362,310 | 188,310 | 82,078 | 82,078 | |
| North Carolina----- | 4,055 | 313 | 106,565 | 111,583 | 111,583 | 442,828 | 37,936 | 2,504 | 40,140 | 40,140 | 43,032 | 1,993,852 | |
| North Dakota----- | - | - | 1,095 | - | 153 | 1,248 | 7,843 | 9,091 | - | 1,218 | 8,760 | 1,218 | |
| Ohio----- | 112,042 | 22,135 | 134,177 | 51,867 | 3,757 | 189,781 | 544,551 | 896,899 | 177,202 | 1,074,101 | 45,672 | 30,056 | |
| Oklahoma----- | - | - | 25,388 | 830 | 7,621 | 93,548 | 119,136 | - | - | 195,568 | 6,640 | 1,529,829 | |
| Oregon----- | 466 | 160 | 6,266 | 13,107 | 13,107 | 25,120 | 3,728 | 1,280 | - | 61,407 | 1,200 | 61,407 | |
| Pennsylvania----- | 15,299 | 3,244 | 18,543 | - | 66,886 | 48,363 | 206,829 | 223,715 | 129,974 | 27,716 | 157,980 | - | |
| South Carolina----- | - | - | 36,913 | - | 36,913 | 234,328 | 271,451 | - | - | 311,437 | - | 311,437 | |
| South Dakota----- | - | - | 20,529 | - | 21,511 | 42,440 | - | - | - | 164,641 | - | 164,641 | |
| Tennessee----- | - | - | 85,484 | - | 85,484 | 85,090 | 170,574 | - | - | 741,299 | - | 741,299 | |
| Texas----- | 7,616 | 3,696 | 11,312 | 335,160 | 89,223 | 29,314 | 420,977 | 60,928 | 29,568 | 90,496 | 75,940 | 2,683,128 | |
| Utah----- | 92,469 | 27,458 | 119,927 | 6,415 | 111,842 | 267,438 | 739,810 | 219,928 | 219,928 | 234,511 | 51,098 | 1,245,043 | |
| Vermont----- | 10,621 | 2,592 | 13,213 | 14,854 | 64,163 | 92,230 | 86,215 | 20,991 | 107,206 | 118,537 | 1,225,743 | 741,310 | |
| Virginia----- | 15,346 | 3,836 | 19,182 | 20,830 | 1,095 | 41,067 | 115,356 | 122,765 | 30,691 | 153,456 | 121,376 | 1,255,117 | |
| Washington----- | 8,367 | 2,092 | 10,459 | 3,685 | 3,181 | 17,290 | 9,112 | 42,477 | 66,938 | 16,735 | 29,200 | 43,995 | |
| West Virginia----- | - | - | 105,980 | - | 105,980 | 2,020 | 1,890 | 2,020 | - | 644 | 644 | 338,197 | |
| Wisconsin----- | 87,450 | 18,530 | 105,980 | 46,121 | - | 152,101 | 288,232 | 640,533 | 699,592 | 148,241 | 409,847 | - | |
| Wyoming----- | - | - | - | - | - | - | - | - | - | 1,257,680 | 2,314,204 | 3,571,884 | |
| Total----- | 1,072,509 | 353,733 | 1,426,242 | 1,931,761 | 652,215 | 4,010,218 | 7,752,454 | 11,762,672 | 8,600,529 | 2,848,460 | 11,445,019 | 15,742,637 | 52,413,652 |
| | | | | | | | | | | | | 94,706,700 | 94,223,048 |

TABLE A-21. - Injury experience and worktime data on officeworkers at nonmetal mines and mills in the United States, by mineral industry, 1970

| Mineral industry | Injuries | | | Frequency rates per million man-hours | | | Severity rates per million man-hours | | | Average men working daily | Average days active | Man-days worked | Man-hours worked |
|------------------------------|----------|----------|-------|---------------------------------------|----------|-------|--------------------------------------|----------|-------|---------------------------|---------------------|-----------------|------------------|
| | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | | | | |
| Clay----- | - | 5 | 5 | - | 1.76 | 1.76 | - | 29 | 29 | 1,388 | 257 | 357,213 | 2,845,681 |
| Gypsum----- | - | 1 | 1 | - | 1.85 | 1.85 | - | 9 | 9 | 262 | 259 | 67,778 | 540,242 |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | 240 | 258 | 61,916 | 495,139 |
| Potash----- | - | 1 | 1 | - | 2.15 | 2.15 | - | 9 | 9 | 197 | 295 | 58,144 | 465,864 |
| Salt----- | - | 1 | 1 | - | .71 | .71 | - | 11 | 11 | 684 | 258 | 176,789 | 1,410,594 |
| Sulfur----- | - | - | - | - | - | - | - | - | - | 248 | 332 | 82,224 | 657,787 |
| Miscellaneous nonmetals----- | - | 4 | 4 | - | 1.83 | 1.83 | - | 19 | 19 | 1,058 | 258 | 273,041 | 2,181,281 |
| Total or average----- | - | 12 | 12 | - | 1.40 | 1.40 | - | 17 | 17 | 4,077 | 264 | 1,077,105 | 8,596,588 |

TABLE A-22. - Injury experience and worktime data on officeworkers at nonmetal mines and mills in the United States, by State, 1970

| State | Injuries | | | Frequency rates per million man-hours | | | Severity rates per million man-hours | | | Average men working daily | Average days active | Man-days worked | Man-hours worked |
|-----------------------|----------|----------|-------|---------------------------------------|----------|-------|--------------------------------------|----------|-------|---------------------------|---------------------|-----------------|------------------|
| | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | | | | |
| Alabama----- | - | - | - | - | - | - | - | - | - | 58 | 262 | 15,197 | 120,356 |
| Arizona----- | - | - | - | - | - | - | - | - | - | 25 | 218 | 5,451 | 43,547 |
| Arkansas----- | - | 1 | 1 | - | 5.87 | 5.87 | - | 82 | 82 | 277 | 21,304 | 170,432 | |
| California----- | - | - | - | - | - | - | - | - | - | 475 | 252 | 119,564 | 956,125 |
| Colorado----- | - | - | - | - | - | - | - | - | - | 24 | 246 | 5,904 | 45,128 |
| Connecticut----- | - | - | - | - | - | - | - | - | - | 4 | 277 | 1,108 | 8,860 |
| Florida----- | - | - | - | - | - | - | - | - | - | 259 | 262 | 67,802 | 542,432 |
| Georgia----- | - | 3 | 3 | - | 3.31 | 3.31 | - | 79 | 79 | 439 | 259 | 113,773 | 905,778 |
| Hawaii----- | - | - | - | - | - | - | - | - | - | 4 | 279 | 1,117 | 8,938 |
| Idaho----- | - | - | - | - | - | - | - | - | - | 25 | 222 | 5,555 | 45,279 |
| Illinois----- | - | - | - | - | - | - | - | - | - | 63 | 274 | 17,292 | 138,341 |
| Indiana----- | - | - | - | - | - | - | - | - | - | 51 | 264 | 13,451 | 106,252 |
| Iowa----- | - | - | - | - | - | - | - | - | - | 48 | 268 | 12,859 | 103,440 |
| Kansas----- | - | - | - | - | - | - | - | - | - | 90 | 262 | 23,566 | 184,563 |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 21 | 257 | 5,393 | 43,144 |
| Maine----- | - | - | - | - | - | - | - | - | - | 1 | 235 | 235 | 1,880 |
| Maryland----- | - | 1 | 1 | - | 41.14 | 41.14 | - | 41 | 41 | 13 | 234 | 3,038 | 24,305 |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | 5 | 298 | 1,490 | 11,920 |
| Michigan----- | - | - | - | - | - | - | - | - | - | 248 | 260 | 64,382 | 513,729 |
| Minnesota----- | - | - | - | - | - | - | - | - | - | 10 | 265 | 2,652 | 21,212 |
| Mississippi----- | - | - | - | - | - | - | - | - | - | 60 | 263 | 15,798 | 127,242 |
| Missouri----- | - | 1 | 1 | - | 12.46 | 12.46 | - | 62 | 62 | 43 | 234 | 10,047 | 80,227 |
| Montana----- | - | - | - | - | - | - | - | - | - | 46 | 262 | 12,048 | 96,498 |
| Nebraska----- | - | - | - | - | - | - | - | - | - | 4 | 294 | 1,178 | 9,149 |
| Nevada----- | - | - | - | - | - | - | - | - | - | 97 | 250 | 24,210 | 193,812 |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | 1 | 269 | 269 | 2,152 |
| New Jersey----- | - | - | - | - | - | - | - | - | - | 35 | 237 | 8,300 | 64,944 |
| New Mexico----- | - | 1 | 1 | - | 2.30 | 2.30 | - | 9 | 9 | 192 | 283 | 54,413 | 435,372 |
| New York----- | - | 3 | 3 | - | 5.74 | 5.74 | - | 78 | 78 | 247 | 264 | 65,242 | 522,419 |
| North Carolina----- | - | - | - | - | - | - | - | - | - | 88 | 244 | 21,512 | 173,488 |
| North Dakota----- | - | - | - | - | - | - | - | - | - | 4 | 220 | 880 | 7,040 |
| Ohio----- | - | - | - | - | - | - | - | - | - | 253 | 264 | 66,672 | 525,499 |
| Oklahoma----- | - | 1 | 1 | - | 11.60 | 11.60 | - | 58 | 58 | 44 | 252 | 11,086 | 86,208 |
| Oregon----- | - | - | - | - | - | - | - | - | - | 4 | 218 | 874 | 6,882 |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | 65 | 259 | 16,859 | 132,394 |
| South Carolina----- | - | - | - | - | - | - | - | - | - | 56 | 236 | 14,360 | 116,482 |
| South Dakota----- | - | - | - | - | - | - | - | - | - | 7 | 236 | 1,652 | 13,223 |
| Tennessee----- | - | - | - | - | - | - | - | - | - | 47 | 257 | 12,056 | 98,395 |
| Texas----- | - | 1 | 1 | - | .99 | .99 | - | 8 | 8 | 419 | 302 | 126,702 | 1,013,638 |
| Utah----- | - | - | - | - | - | - | - | - | - | 85 | 262 | 22,293 | 178,430 |
| Vermont----- | - | - | - | - | - | - | - | - | - | 19 | 262 | 4,975 | 39,813 |
| Virginia----- | - | - | - | - | - | - | - | - | - | 53 | 268 | 14,186 | 112,644 |
| Washington----- | - | - | - | - | - | - | - | - | - | 1 | 117 | 117 | 936 |
| West Virginia----- | - | - | - | - | - | - | - | - | - | 9 | 213 | 1,921 | 15,368 |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | 2 | 255 | 510 | 4,530 |
| Wyoming----- | - | - | - | - | - | - | - | - | - | 125 | 258 | 32,238 | 258,920 |
| Total or average----- | - | 12 | 12 | - | 1.40 | 1.40 | - | 17 | 17 | 4,077 | 264 | 1,077,105 | 8,596,588 |

TABLE B-1. - Injury experience by degree and worktime data on nonmetal mines and mills in the United States, by general work location, 1971
 APPENDIX B---1971 DATA

| | | Injuries | | Frequency rates per million man-hours | | Severity rates per million man-hours | | | |
|-------------------------------|----------|-----------|--------------|---------------------------------------|-----------------|--------------------------------------|--------------|---------------------|---------------------------|
| General work location | Nonfatal | | All injuries | Non-fatal | All injuries | Non-fatal | All injuries | Active operations | Average men working daily |
| | Fatal | Permanent | Total | Temporary total | Total non-fatal | Fatal | Fatal | Average days active | |
| | - | - | 12 | 1 | 8 | 372 | 381 | 393 | 1,39 |
| Underground mines: | | | | | | | | | |
| Underground----- | | | | | | | | | |
| Surface----- | | | | | | | | | |
| Total or average----- | | | 12 | 1 | 11 | 432 | 444 | 456 | 1.06 |
| Open pit mines----- | | | 3 | 1 | 9 | 286 | 296 | 299 | .18 |
| Other surface mining----- | | | - | - | - | 1 | 1 | 1 | 5.95 |
| Total or average, mining----- | | | 15 | 2 | 20 | 719 | 741 | 756 | .53 |
| Mills----- | | | 9 | 2 | 45 | 1,520 | 1,567 | 1,576 | .16 |
| Grand total or average----- | | | 24 | 4 | 65 | 2,239 | 2,308 | 2,332 | .28 |

TABLE B-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States,
by general work location and detailed cause, 1971

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | |
|---|----------|-----------|---------|--------------------|-------------------|----------------------|--------------------|-----------------|-------|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | |
| | | Permanent | | Temporary total | | | | | |
| | | Total | Partial | | Total nonfatal | | | | |
| UNDERGROUND MINES | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | |
| Falls of roof or back: | | | | | | | | | |
| While mining----- | 2 | - | 1 | 26 | 27 | 29 | 50 | 36 | 448 |
| While loading----- | 1 | 1 | - | 1 | 2 | 3 | - | 11 | 4,004 |
| While testing or barring down back----- | - | - | - | 3 | 3 | 3 | - | 19 | 19 |
| While preparing or installing rock bolt----- | - | - | - | 1 | 1 | 1 | - | 73 | 73 |
| All other----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| Falls of face or side: | | | | | | | | | |
| While mining----- | - | - | - | 3 | 3 | 3 | - | 6 | 6 |
| While loading----- | - | - | - | 2 | 2 | 2 | - | 40 | 40 |
| Sliding or falling material or objects: | | | | | | | | | |
| Timber or other support----- | - | - | - | 2 | 2 | 2 | - | 11 | 11 |
| Dropped or thrown by coworker----- | - | - | - | 2 | 2 | 2 | - | 10 | 10 |
| From car, bin, platform, or chute----- | - | - | - | 7 | 7 | 7 | - | 13 | 13 |
| Falling cage----- | - | - | - | 2 | 2 | 2 | - | 3 | 3 |
| Falling equipment or machinery under repair----- | - | - | - | 1 | 1 | 1 | - | 41 | 41 |
| From stockpile, dump, or gob----- | - | - | - | 2 | 2 | 2 | - | 8 | 8 |
| All other----- | - | - | - | 1 | 1 | 1 | - | 57 | 57 |
| Slips or falls of persons: | | | | | | | | | |
| On same level: | | | | | | | | | |
| While handling material----- | - | - | - | 14 | 14 | 14 | - | 24 | 24 |
| Caused by handtool slipping or breaking----- | - | - | - | 3 | 3 | 3 | - | 10 | 10 |
| Caused by electric current----- | - | - | - | 1 | 1 | 1 | - | 7 | 7 |
| While operating or moving machinery----- | - | - | - | 1 | 1 | 1 | - | 18 | 18 |
| All other----- | - | - | - | 14 | 14 | 14 | - | 28 | 28 |
| From an elevation: | | | | | | | | | |
| While handling material----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 8 | 8 | 8 | - | 25 | 25 |
| All other----- | - | - | - | 9 | 9 | 9 | - | 26 | 26 |
| Handling material: | | | | | | | | | |
| Prop, stull, or timber----- | - | - | - | 7 | 7 | 7 | - | 43 | 43 |
| Ore, valuable mineral----- | - | - | - | 16 | 16 | 16 | - | 21 | 21 |
| Rock or waste----- | - | - | - | 4 | 4 | 4 | - | 22 | 22 |
| Rail----- | - | - | - | 3 | 3 | 3 | - | 105 | 105 |
| Flying particle while handling material----- | - | - | - | 4 | 4 | 4 | - | 48 | 48 |
| All other----- | - | - | - | 2 | 85 | 87 | 87 | 110 | 20 |
| Handtools: | | | | | | | | | |
| Axe, hatchet, or adz----- | - | - | - | 2 | 2 | 2 | - | 8 | 8 |
| Hammer or sledge----- | - | - | - | 8 | 8 | 8 | - | 15 | 15 |
| Crowbar or bar----- | - | - | - | 5 | 5 | 5 | - | 7 | 7 |
| Saw----- | - | - | - | 1 | 1 | 1 | - | 18 | 18 |
| Handtools used to install rock bolt----- | - | - | - | 1 | 1 | 1 | - | 22 | 22 |
| In hand of fellow worker----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 |
| All other----- | - | - | - | 4 | 4 | 4 | - | 22 | 22 |
| Stepping or kneeling on sharp or loose objects: | | | | | | | | | |
| Stepping on sharp object----- | - | - | - | 2 | 2 | 2 | - | 3 | 3 |
| Stepping on loose object----- | - | - | - | 7 | 7 | 7 | - | 28 | 28 |
| Striking or bumping against objects----- | - | - | - | 4 | 4 | 4 | - | 6 | 6 |
| Haulage: | | | | | | | | | |
| Cages, cars, or motors: | | | | | | | | | |
| Struck, run over, or squeezed between: | | | | | | | | | |
| Coupling or uncoupling----- | - | - | - | 2 | 2 | 2 | - | 24 | 24 |
| Pulling, pushing, or dropping----- | - | - | 1 | - | 1 | 1 | 1,500 | - | 1,500 |
| Operating or riding----- | - | - | - | 1 | 1 | 1 | - | 25 | 25 |
| All other----- | - | - | - | 1 | 1 | 1 | - | 67 | 67 |
| Squeezed between cage, car, or motor, and other object: | | | | | | | | | |
| Coupling or uncoupling----- | - | - | - | 1 | 1 | 1 | - | 37 | 37 |
| Operating or riding----- | - | - | - | 3 | 3 | 3 | - | 13 | 13 |
| All other----- | - | - | - | 1 | 2 | 3 | 3 | 60 | 43 |
| Striking or bumping against objects----- | - | - | - | 1 | 1 | 1 | - | 39 | 34 |
| Falling, slipping, or jumping into or from | | | | | | | | | |
| Shuttle cars, transloaders, and small mobile trucks: | | | | | | | | | |
| Struck or run over----- | - | - | - | 2 | 2 | 2 | - | 6 | 6 |
| Squeezed between shuttle car, transloader, or small mobile truck, and other object----- | - | - | - | 3 | 3 | 3 | - | 30 | 30 |
| All other----- | - | - | 1 | 9 | 10 | 10 | 50 | 12 | 16 |
| Railroad cars and locomotives: | | | | | | | | | |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | |
| While operating----- | - | - | - | 8 | 8 | 8 | - | 45 | 45 |
| Slip or fall on or from----- | - | - | - | 8 | 8 | 8 | - | 26 | 26 |
| Miscellaneous haulage: | | | | | | | | | |
| Rope or cable on haulage----- | - | - | - | 6 | 6 | 6 | - | 7 | 7 |
| Slip or strain from moving car by hand----- | - | - | - | 5 | 5 | 5 | - | 40 | 40 |
| Flying particle----- | - | - | - | 3 | 3 | 3 | - | 41 | 41 |
| All other----- | - | - | - | 4 | 4 | 4 | - | 8 | 8 |
| Explosions of gas or dust: Caused by all high explosives----- | 1 | - | - | 1 | 1 | 1 | - | 128 | 128 |
| Explosives: Flying fragments----- | 1 | - | - | 1 | 1 | 2 | - | 8 | 3,004 |
| Electricity: | | | | | | | | | |
| Mining or loading machine----- | - | - | 1 | - | 1 | 1 | 4,500 | - | 4,500 |
| Cutout switch or junction box----- | - | - | - | 2 | 2 | 2 | - | 12 | 12 |
| Cable, cable arc, or blowup----- | - | - | - | 3 | 3 | 3 | - | 27 | 27 |
| Machinery: | | | | | | | | | |
| Belt conveyor----- | - | - | - | 2 | 2 | 2 | - | 6 | 6 |
| Chain, bucket, shaker, or screw conveyor----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 |
| Mucking machine, mechanical loader----- | - | - | - | 1 | 1 | 1 | - | 19 | 19 |
| Power drill, rotary or percussive (except rock bolting)----- | - | - | - | 14 | 14 | 14 | - | 29 | 29 |
| Power drill for rock bolting----- | - | - | - | 1 | 1 | 1 | - | 10 | 10 |
| Power equipment (except drill) for rock bolting----- | - | - | - | 1 | 1 | 1 | - | 24 | 24 |
| Power shovel, dragline, bulldozer, etc.----- | - | - | 1 | 3 | 4 | 4 | 540 | 1 | 136 |
| Stationary machinery----- | 1 | - | - | 3 | 3 | 4 | - | 17 | 1,513 |
| Particle set in motion by machinery (except rock bolting)----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 |
| Continuous mining machine----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 |
| All other----- | - | - | - | 3 | 3 | 3 | - | 18 | 18 |

TABLE B-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States, by general work location and detailed cause, 1971 - Continued

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| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | | | | | | | | |
|---|----------|-----------|----|--------------------|-----------------|----------------------|--------------------|-----------------|-------|--|--|--|--|--|--|--|
| | Pstal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | | | | | | | | |
| | | Permanent | | Temporary total | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| UNDERGROUND MINES - Continued | | | | | | | | | | | | | | | | |
| Underground (including shaft and slope) - Continued | | | | | | | | | | | | | | | | |
| Suffocation (no flame or smoldering): | | | | | | | | | | | | | | | | |
| Natural mine gas or oxygen deficient----- | 7 | - | - | 1 | 1 | 8 | - | 1 | 5,250 | | | | | | | |
| Foreign gas----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | | | | | | |
| Miscellaneous causes: | | | | | | | | | | | | | | | | |
| Acetylene or electric welding or cutting----- | - | - | - | 1 | 1 | 1 | - | 6 | 6 | | | | | | | |
| Irritation or burn from caustic or acid----- | - | - | - | 2 | 2 | 2 | - | 3 | 3 | | | | | | | |
| Burn from controlled fire----- | - | - | - | 2 | 2 | 2 | - | 9 | 9 | | | | | | | |
| All other----- | - | - | - | 6 | 6 | 6 | - | 16 | 16 | | | | | | | |
| Pneumoconiosis----- | - | - | - | 1 | 1 | 1 | - | 66 | 66 | | | | | | | |
| Total or average, underground----- | 12 | 1 | 8 | 372 | 381 | 393 | 865 | 23 | 238 | | | | | | | |
| Surface at underground: | | | | | | | | | | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | | | | | | |
| On same level: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 2 | 2 | 2 | - | 12 | 12 | | | | | | | |
| All other----- | - | - | - | 4 | 4 | 4 | - | 11 | 11 | | | | | | | |
| From an elevation: | | | | | | | | | | | | | | | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| All other----- | - | - | - | 4 | 4 | 4 | - | 4 | 4 | | | | | | | |
| Handling material: | | | | | | | | | | | | | | | | |
| Prop, stull, or timber----- | - | - | - | 2 | 2 | 2 | - | 7 | 7 | | | | | | | |
| Ore, valuable mineral----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | | | | | | |
| Rail----- | - | - | - | 1 | 1 | 1 | - | 6 | 6 | | | | | | | |
| All other----- | - | - | 2 | 19 | 21 | 21 | 345 | 8 | 40 | | | | | | | |
| Handtools: | | | | | | | | | | | | | | | | |
| Crowbar or bar----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 | | | | | | | |
| All other----- | - | - | - | 2 | 2 | 2 | - | 2 | 2 | | | | | | | |
| Stepping or kneeling on sharp or loose objects: Stepping on loose object----- | - | - | - | 4 | 4 | 4 | - | 4 | 4 | | | | | | | |
| Striking or bumping against objects----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 | | | | | | | |
| Haulage: | | | | | | | | | | | | | | | | |
| Cages, cars, or motors: Squeezed between cage, car, or motor, and other object----- | - | - | 1 | - | 1 | 1 | 900 | - | 900 | | | | | | | |
| Railroad cars and locomotives----- | - | - | - | 3 | 3 | 3 | - | 20 | 20 | | | | | | | |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | | | | | | | | |
| While operating----- | - | - | - | 1 | 1 | 1 | - | 9 | 9 | | | | | | | |
| Slip or fall on or from----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| Electricity: Power or lighting circuit----- | - | - | - | 1 | 1 | 1 | - | 3 | 3 | | | | | | | |
| Machinery: | | | | | | | | | | | | | | | | |
| Belt conveyor----- | - | - | - | 2 | 2 | 2 | - | 14 | 14 | | | | | | | |
| Stationary machinery----- | - | - | - | 2 | 2 | 2 | - | 10 | 10 | | | | | | | |
| Suffocation (no flame or smoldering): Foreign gas----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| Miscellaneous causes: | | | | | | | | | | | | | | | | |
| Flying particle from draft or wind----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| Acetylene or electric welding or cutting----- | - | - | - | 3 | 3 | 3 | - | 7 | 7 | | | | | | | |
| Irritation or burn from caustic or acid----- | - | - | - | 2 | 2 | 2 | - | 4 | 4 | | | | | | | |
| All other----- | - | - | - | 1 | 1 | 1 | - | 4 | 4 | | | | | | | |
| Total or average, surface at underground----- | - | - | 3 | 60 | 63 | 63 | 530 | 7 | 32 | | | | | | | |
| Total or average, underground mines----- | 12 | 1 | 11 | 432 | 444 | 456 | 774 | 21 | 210 | | | | | | | |
| OPEN PIT MINES | | | | | | | | | | | | | | | | |
| Sliding or falling material or objects: | | | | | | | | | | | | | | | | |
| From car, bin, platform, or chute----- | - | - | - | 1 | 1 | 1 | - | 10 | 10 | | | | | | | |
| From stockpile, dump, or gob----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 | | | | | | | |
| All other----- | - | - | - | 1 | 1 | 1 | - | 9 | 9 | | | | | | | |
| Slips or falls of persons: | | | | | | | | | | | | | | | | |
| On same level: | | | | | | | | | | | | | | | | |
| While escaping another hazard----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| While handling material----- | - | - | - | 7 | 7 | 7 | - | 6 | 6 | | | | | | | |
| While operating or moving machinery----- | - | - | - | 4 | 4 | 4 | - | 22 | 22 | | | | | | | |
| All other----- | - | - | - | 13 | 13 | 13 | - | 15 | 15 | | | | | | | |
| From an elevation: | | | | | | | | | | | | | | | | |
| While handling material----- | - | - | - | 4 | 4 | 4 | - | 16 | 16 | | | | | | | |
| While operating or moving machinery----- | - | - | - | 7 | 7 | 7 | - | 13 | 13 | | | | | | | |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 3 | 3 | 3 | - | 146 | 146 | | | | | | | |
| All other----- | - | - | - | 10 | 10 | 10 | - | 10 | 10 | | | | | | | |
| Handling material: | | | | | | | | | | | | | | | | |
| Prop, stull, or timber----- | - | - | - | 3 | 3 | 3 | - | 6 | 6 | | | | | | | |
| Ore, valuable mineral----- | - | - | - | 8 | 8 | 8 | - | 19 | 19 | | | | | | | |
| Rock or waste----- | - | - | - | 1 | 4 | 5 | 50 | 6 | 15 | | | | | | | |
| Rail----- | - | - | - | 4 | 4 | 4 | - | 30 | 30 | | | | | | | |
| Flying particle while handling material----- | - | - | - | 8 | 8 | 8 | - | 6 | 6 | | | | | | | |
| All other----- | - | - | 1 | 65 | 66 | 66 | 300 | 26 | 30 | | | | | | | |
| Handtools: | | | | | | | | | | | | | | | | |
| Pick----- | - | - | - | 2 | 2 | 2 | - | 11 | 11 | | | | | | | |
| Hammer or sledge----- | - | - | - | 2 | 2 | 2 | - | 30 | 30 | | | | | | | |
| Crowbar or bar----- | - | - | - | 2 | 2 | 2 | - | 8 | 8 | | | | | | | |
| Shovel----- | - | - | - | 1 | 1 | 1 | - | 5 | 5 | | | | | | | |
| Flying particle from tool or object worked on----- | - | - | - | 8 | 9 | 9 | 180 | 13 | 31 | | | | | | | |
| All other----- | - | - | - | 13 | 13 | 13 | - | 16 | 16 | | | | | | | |
| Stepping or kneeling on sharp or loose objects: Stepping on loose object----- | - | - | - | 3 | 3 | 3 | - | 9 | 9 | | | | | | | |

TABLE B-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States,
by general work location and detailed cause, 1971 - Continued

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | |
|---|----------|-----------|---------|--------------------|-------------------|----------------------|--------------------|-----------------|-------|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | |
| | | Permanent | | Temporary total | | | | | |
| | | Total | Partial | | Total nonfatal | | | | |
| OPEN PIT MINES - Continued | | | | | | | | | |
| Haulage: | | | | | | | | | |
| Shuttle cars, transloaders, and small mobile trucks: | | | | | | | | | |
| Squeezed between shuttle car, transloader, or small mobile truck, and other object----- | - | - | - | 1 | 1 | 1 | - | 110 | 110 |
| All other----- | - | - | - | 4 | 4 | 4 | - | 4 | 4 |
| Railroad cars and locomotives----- | - | - | - | 3 | 3 | 3 | - | 45 | 45 |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | |
| While operating----- | 1 | 1 | 1 | 23 | 25 | 26 | 75 | 26 | 487 |
| Slip or fall on or from----- | - | - | 1 | 16 | 17 | 17 | 3,000 | 51 | 225 |
| Miscellaneous haulage: | | | | | | | | | |
| Rope or cable on haulage----- | - | - | 1 | 3 | 4 | 4 | 75 | 10 | 26 |
| Slip or strain from moving car by hand----- | - | - | - | 1 | 1 | 1 | - | 43 | 43 |
| Flying particle----- | - | - | - | 1 | 1 | 1 | - | 29 | 29 |
| All other----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| Electricity: Transformer, generator, or stationary motor----- | - | - | - | 1 | 1 | 1 | - | 30 | 30 |
| Machinery: | | | | | | | | | |
| Belt conveyor----- | - | - | - | 1 | 1 | 1 | - | 70 | 70 |
| Chain, bucket, shaker, or screw conveyor----- | - | - | - | 1 | 1 | 1 | - | 9 | 9 |
| Power drill, rotary or percussive----- | - | - | 1 | 7 | 8 | 8 | 300 | 22 | 57 |
| Power shovel, dragline, bulldozer, etc.----- | 1 | - | 1 | 23 | 24 | 25 | 600 | 33 | 294 |
| Stationary machinery----- | - | - | - | 3 | 3 | 3 | - | 45 | 45 |
| While moving any machine except mining or loading----- | 1 | - | - | 1 | 1 | 2 | - | 17 | 3,008 |
| Particle set in motion by machinery----- | - | - | - | 5 | 5 | 5 | - | 5 | 5 |
| Fires or suffocation from fires: Oil, gasoline, other flammable liquid----- | - | - | - | 1 | 1 | 1 | - | 12 | 12 |
| Miscellaneous causes: | | | | | | | | | |
| Acetylene or electric welding or cutting----- | - | - | - | 5 | 5 | 5 | - | 6 | 6 |
| Burn from controlled fire----- | - | - | - | 3 | 3 | 3 | - | 92 | 92 |
| All other----- | - | - | 1 | 7 | 8 | 8 | 900 | 9 | 120 |
| Total or average, open pit mines----- | 3 | 1 | 9 | 286 | 296 | 299 | 609 | 24 | 122 |
| OTHER SURFACE MINING | | | | | | | | | |
| Handling material----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| Total or average, other surface mining----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| Total or average, mining----- | 15 | 2 | 20 | 719 | 741 | 756 | 700 | 22 | 175 |
| MILLS | | | | | | | | | |
| Sliding or falling material or objects: | | | | | | | | | |
| Timber or other support----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| Dropped or thrown by coworker----- | - | - | - | 1 | 1 | 1 | - | 7 | 7 |
| From car, bin, platform, or chute----- | - | - | - | 12 | 12 | 12 | - | 21 | 21 |
| Falling cage----- | - | - | - | 1 | 1 | 1 | - | 7 | 7 |
| All other----- | - | - | - | 2 | 2 | 2 | - | 10 | 10 |
| Slips or falls of persons: | | | | | | | | | |
| On same level: | | | | | | | | | |
| While handling material----- | - | - | - | 37 | 37 | 37 | - | 32 | 32 |
| Caused by handtool slipping or breaking----- | - | - | - | 4 | 4 | 4 | - | 18 | 18 |
| While operating or moving machinery----- | - | - | - | 1 | 1 | 1 | - | 9 | 9 |
| All other----- | - | - | 1 | 84 | 85 | 85 | 50 | 33 | 33 |
| From an elevation: | | | | | | | | | |
| While escaping another hazard----- | - | - | - | 4 | 4 | 4 | - | 37 | 37 |
| While handling material----- | - | - | 1 | 30 | 31 | 31 | 50 | 47 | 47 |
| Caused by handtool slipping or breaking----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| While operating or moving machinery----- | - | - | - | 13 | 13 | 13 | - | 13 | 13 |
| Caused by failure of scaffold, ladder, or other support----- | - | - | - | 21 | 21 | 21 | - | 44 | 44 |
| All other----- | - | - | - | 66 | 66 | 66 | - | 19 | 19 |
| Handling material: | | | | | | | | | |
| Prop, stull, or timber----- | - | - | 1 | 14 | 15 | 15 | 50 | 7 | 10 |
| Ore, valuable mineral----- | - | - | 1 | 40 | 41 | 41 | 900 | 15 | 37 |
| Roc or waste----- | - | - | - | 10 | 10 | 10 | - | 10 | 10 |
| Rail----- | - | - | - | 20 | 20 | 20 | - | 11 | 11 |
| Flying particle while loading car----- | - | - | - | 2 | 2 | 2 | - | 1 | 1 |
| Flying particle while handling material----- | - | - | - | 42 | 42 | 42 | - | 6 | 6 |
| All other----- | - | - | 14 | 435 | 449 | 449 | 345 | 16 | 26 |
| Handtools: | | | | | | | | | |
| Pick----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 |
| Hammer or sledge----- | - | - | - | 13 | 13 | 13 | - | 7 | 7 |
| Crowbar or bar----- | - | - | - | 14 | 14 | 14 | - | 16 | 16 |
| Shovel----- | - | - | - | 2 | 2 | 2 | - | 28 | 28 |
| In hand of fellow worker----- | - | - | - | 6 | 6 | 6 | - | 14 | 14 |
| Flying particle from tool or object worked on----- | - | - | - | 11 | 11 | 11 | - | 8 | 8 |
| All other----- | - | - | 1 | 27 | 28 | 28 | 50 | 10 | 11 |
| Stepping or kneeling on sharp or loose objects: | | | | | | | | | |
| Stepping on sharp object----- | - | - | - | 10 | 10 | 10 | - | 2 | 2 |
| Stepping on loose object----- | - | - | - | 10 | 10 | 10 | - | 20 | 20 |
| Striking or bumping against objects----- | - | - | - | 12 | 12 | 12 | - | 11 | 11 |

TABLE B-2. - Number and average severity of injuries by degree at nonmetal mines and mills in the United States, by general work location and detailed cause, 1971 - Continued

| General work location and detailed cause by injury | Injuries | | | | | | Average severity | | |
|---|----------|-----------|----|--------------------|-----------------|----------------------|--------------------|-----------------|-------|
| | Fatal | Nonfatal | | | All injuries | Permanent partial | Temporary total | All injuries | |
| | | Permanent | | Temporary total | | | | | |
| General work location and detailed cause by injury | | | | | | | | | |
| MILLS - Continued | | | | | | | | | |
| Haulage: | | | | | | | | | |
| Gages, cars, or motors: | | | | | | | | | |
| Struck, run over, or squeezed between: | | | | | | | | | |
| Pulling, pushing, or dropping----- | - | - | - | 5 | 5 | 5 | - | 4 | 4 |
| Operating or riding----- | - | - | - | 1 | 1 | 1 | - | 13 | 13 |
| All other----- | - | - | - | 3 | 3 | 3 | - | 6 | 6 |
| Squeezed between cage, car, or motor, and other object: | | | | | | | | | |
| Switching, spragging, blocking, or braking----- | - | - | - | 1 | 1 | 1 | - | 16 | 16 |
| Pulling, pushing, or dropping----- | - | - | - | 7 | 7 | 7 | - | 16 | 16 |
| Operating or riding----- | - | - | - | 1 | 1 | 1 | - | 65 | 65 |
| All other----- | - | - | - | 3 | 3 | 3 | - | 30 | 30 |
| Falling, slipping, or jumping into or from----- | - | - | - | 5 | 5 | 5 | - | 36 | 36 |
| Shuttle cars, transloaders, and small mobile trucks: | | | | | | | | | |
| Struck or run over----- | - | - | - | 14 | 14 | 14 | - | 36 | 36 |
| Squeezed between shuttle car, transloader, or small mobile truck, and other object----- | - | - | 1 | 5 | 6 | 6 | 110 | 13 | 29 |
| All other----- | - | - | 1 | 46 | 47 | 47 | 75 | 21 | 22 |
| Railroad cars and locomotives----- | 3 | - | - | 69 | 69 | 72 | - | 25 | 274 |
| Automobiles, gasoline or diesel trucks: | | | | | | | | | |
| While operating----- | - | - | 2 | 28 | 30 | 30 | 735 | 21 | 69 |
| Slip or fall on or from----- | - | - | 1 | 28 | 29 | 29 | 4,500 | 27 | 181 |
| Water transportation: Rope or chain on boat or barge----- | - | - | - | 1 | 1 | 1 | - | 2 | 2 |
| Miscellaneous haulage: | | | | | | | | | |
| Rope or cable on haulage----- | - | - | - | 18 | 18 | 18 | - | 13 | 13 |
| Slip or strain from moving car by hand----- | - | - | 33 | 33 | 33 | 33 | - | 21 | 21 |
| Flying particle----- | - | - | - | 2 | 2 | 2 | - | 14 | 14 |
| All other----- | - | - | - | 22 | 22 | 22 | - | 11 | 11 |
| Explosions of gas or dust----- | - | - | - | 2 | 2 | 2 | - | 180 | 180 |
| Electricity: | | | | | | | | | |
| Power or lighting circuit----- | - | - | - | 2 | 2 | 2 | - | 13 | 13 |
| Locomotive or shuttle car----- | - | - | - | 1 | 1 | 1 | - | 27 | 27 |
| Cutout switch or junction box----- | - | - | 1 | 4 | 5 | 5 | 100 | 8 | 26 |
| Machinery: | | | | | | | | | |
| Belt conveyor----- | - | - | 6 | 40 | 46 | 46 | 328 | 29 | 68 |
| Chain, bucket, shaker, or screw conveyor----- | - | - | 1 | 3 | 4 | 4 | 235 | 5 | 63 |
| Power drill, rotary or percussive----- | - | - | - | 10 | 10 | 10 | - | 9 | 9 |
| Power shovel, dragline, bulldozer, etc.----- | 3 | - | 2 | 23 | 25 | 28 | 525 | 17 | 694 |
| Stationary machinery----- | 3 | 1 | 10 | 80 | 91 | 94 | 652 | 25 | 346 |
| While moving any machine except mining or loading----- | - | - | - | 5 | 5 | 5 | - | 11 | 11 |
| Particle set in motion by machinery----- | - | - | - | 6 | 6 | 6 | - | 2 | 2 |
| Suffocation (no flame or smoldering): | | | | | | | | | |
| Natural mine gas or oxygen deficient----- | - | - | - | 1 | 1 | 1 | - | 10 | 10 |
| Foreign gas----- | - | - | - | 6 | 6 | 6 | - | 9 | 9 |
| Fires or suffocation from fires: | | | | | | | | | |
| Oil, gasoline, other flammable liquid----- | - | - | - | 1 | 1 | 1 | - | 1 | 1 |
| All other----- | - | - | - | 1 | 1 | 1 | - | 7 | 7 |
| Miscellaneous causes: | | | | | | | | | |
| Flying particle from draft or wind----- | - | - | - | 4 | 4 | 4 | - | 3 | 3 |
| Carbide - gas or burns from----- | - | - | - | 1 | 1 | 1 | - | 12 | 12 |
| Acetylene or electric welding or cutting----- | - | - | - | 17 | 17 | 17 | - | 10 | 10 |
| Irritation or burn from caustic or acid----- | - | - | - | 20 | 20 | 20 | - | 9 | 9 |
| Burn from controlled fire----- | - | - | - | 24 | 24 | 24 | - | 20 | 20 |
| All other----- | - | - | - | 30 | 30 | 30 | - | 27 | 27 |
| Pneumoconiosis----- | - | 1 | 1 | - | 2 | 2 | 2,000 | - | 4,000 |
| Total or average, mills----- | 9 | 2 | 45 | 1,520 | 1,567 | 1,576 | 533 | 20 | 76 |
| Grand total or average----- | 24 | 4 | 65 | 2,239 | 2,308 | 2,332 | 584 | 21 | 108 |

TABLE B-3. - Fatal injuries and distribution by part of body injured at nonmetal mines and mills in the United States,
by general work location and detailed cause, 1971

| General work location and detailed cause | Injuries | | | | | | | | Percentage distribution | |
|---|---------------------------------|-----|-------|-------------------|----------------------|-------------------|-------------------|----------|-------------------------|--|
| | Head, face, neck (excl. eye) | Eye | Trunk | Arm (above wrist) | Wrist, hand, fingers | Leg (above ankle) | Ankle, foot, toes | Multiple | | |
| UNDERGROUND MINES | | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | | |
| Falls of roof or back: | | | | | | | | | | |
| While mining----- | - | - | - | - | - | - | - | - | 2 | |
| While loading----- | 1 | - | - | 1 | - | - | - | - | 16.67 | |
| Explosives: Flying fragments----- | - | - | - | - | - | - | - | - | 8.33 | |
| Machinery: Stationary machinery----- | - | - | - | - | - | - | - | - | 8.33 | |
| Suffocation (no flame or smoldering): Natural mine gas or oxygen deficient----- | - | - | 7 | - | - | - | - | - | 1 | |
| Total, underground mines----- | 1 | - | 8 | - | - | - | - | 3 | 12 | |
| Percentage distribution----- | 8.33 | - | 66.67 | - | - | - | 25.00 | - | - | |
| ALL SURFACE MINES | | | | | | | | | | |
| Haulage: | | | | | | | | | | |
| Automobiles, gasoline or diesel trucks: While operating----- | - | - | - | - | - | - | - | 1 | 1 | |
| Machinery: | | | | | | | | | | |
| Power shovel, dragline, bulldozer, etc.----- | - | - | - | 1 | - | - | - | 1 | 33.33 | |
| While moving any machine except mining or loading----- | - | - | - | - | - | - | - | 1 | 33.33 | |
| Total, surface mines----- | - | - | 1 | - | - | - | - | 2 | 3 | |
| Percentage distribution----- | - | - | 33.33 | - | - | - | 66.67 | - | - | |
| MINING | | | | | | | | | | |
| Haulage: Railroad cars and locomotives----- | | | | | | | | | | |
| Machinery: | | | | | | | | | | |
| Power shovel, dragline, bulldozer, etc.----- | 2 | - | - | - | - | - | - | 1 | 33.33 | |
| Stationary machinery----- | - | - | - | - | - | 1 | - | 1 | 33.33 | |
| Total, mills----- | 3 | - | 9 | - | - | - | - | 3 | 9 | |
| Percentage distribution----- | 33.33 | - | 60.00 | - | - | - | 33.33 | - | - | |
| GRAND TOTAL | | | | | | | | | | |
| Grand total----- | 4 | - | 9 | - | - | 3 | - | 8 | 24 | |
| Percentage distribution----- | 16.67 | - | 37.50 | - | - | 12.50 | - | 33.33 | - | |

TABLE B-4. - Injuries, distribution, average severity by degree, and injury rates at nonmetal mines and mills in the United States, by general work location and part of body injured, 1971

| General work location and part of body injured | Injuries | | | | | | | Percent-age distribution of all injuries 1/ | Average severity | | | Frequency rates per million man-hours | | Severity rates per million man-hours | | | | | | | | | | | | | |
|--|----------|-----------|---------|------------------|--------------------|-------------------|------------------|--|------------------|-------|-----------|---------------------------------------|-----------|--------------------------------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| | Fatal | Nonfatal | | | All injuries 1/ | Permanent partial | Tempo-rary total | | All injuries | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | | | | | | | | | | | | |
| | | Permanent | | Tempo-rary total | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total | Partial | | | | | | | | | | | | | | | | | | | | | | | | |
| UNDERGROUND MINES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | 1 | 1 | - | 25 | 26 | 27 | 7.0 | - | 18 | 461 | 0.12 | 3.01 | 695 | 747 | | | | | | | | | | | | | |
| Eye----- | - | - | 1 | 13 | 13 | 13 | 3.4 | - | 20 | 20 | - | 1.51 | - | 30 | | | | | | | | | | | | | |
| Trunk----- | 8 | - | 1 | 131 | 132 | 140 | 36.2 | 50 | 26 | 367 | .93 | 15.30 | 5,562 | 393 | | | | | | | | | | | | | |
| Arm (above wrist)----- | - | - | 1 | 15 | 16 | 16 | 4.1 | 4,500 | 22 | 302 | - | 1.85 | - | 559 | | | | | | | | | | | | | |
| Wrist, hand, fingers----- | - | - | 5 | 59 | 64 | 64 | 16.5 | 174 | 19 | 31 | - | 7.42 | - | 231 | | | | | | | | | | | | | |
| Leg (above ankle)----- | - | - | - | 48 | 48 | 48 | 12.4 | - | 40 | 40 | - | 5.56 | - | 223 | | | | | | | | | | | | | |
| Ankle, foot, toes----- | - | - | - | 52 | 52 | 52 | 13.4 | - | 12 | 12 | - | 6.03 | - | 75 | | | | | | | | | | | | | |
| Multiple----- | 3 | - | 1 | 23 | 24 | 27 | 7.0 | 1,500 | 19 | 739 | .35 | 2.78 | 2,086 | 226 | | | | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 6 | 6 | 6 | - | - | 24 | 24 | - | .70 | - | 17 | | | | | | | | | | | | | |
| Total or average----- | 12 | 1 | 8 | 372 | 381 | 393 | - | 865 | 23 | 238 | 1.39 | 44.15 | 8,343 | 2,501 | | | | | | | | | | | | | |
| Surface at underground: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | - | - | - | 3 | 3 | 3 | 4.9 | - | 3 | 3 | - | 1.12 | - | 3 | | | | | | | | | | | | | |
| Eye----- | - | - | - | 5 | 5 | 5 | 8.2 | - | 4 | 4 | - | 1.87 | - | 7 | | | | | | | | | | | | | |
| Trunk----- | - | - | - | 24 | 24 | 24 | 39.3 | - | 9 | 9 | - | 8.96 | - | 81 | | | | | | | | | | | | | |
| Arm (above wrist)----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Wrist, hand, fingers----- | - | - | 3 | 11 | 14 | 14 | 23.0 | 530 | 6 | 118 | - | 5.23 | - | 619 | | | | | | | | | | | | | |
| Leg (above ankle)----- | - | - | - | 7 | 7 | 7 | 11.5 | - | 5 | 5 | - | 2.61 | - | 13 | | | | | | | | | | | | | |
| Ankle, foot, toes----- | - | - | - | 6 | 6 | 6 | 9.8 | - | 10 | 10 | - | 2.24 | - | 22 | | | | | | | | | | | | | |
| Multiple----- | - | - | - | 2 | 2 | 2 | 3.3 | - | 4 | 4 | - | .75 | - | 3 | | | | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 2 | 2 | 2 | - | - | 17 | 17 | - | .75 | - | 13 | | | | | | | | | | | | | |
| Total or average----- | - | - | 3 | 60 | 63 | 63 | - | 530 | 7 | 32 | - | 23.51 | - | 761 | | | | | | | | | | | | | |
| Total or average, underground mines----- | 12 | 1 | 11 | 432 | 444 | 456 | - | 774 | 21 | 210 | 1.06 | 39.26 | 6,366 | 2,089 | | | | | | | | | | | | | |
| OPEN PIT MINES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | - | 1 | - | 9 | 10 | 10 | 3.9 | - | 13 | 612 | - | .59 | - | 358 | | | | | | | | | | | | | |
| Eye----- | - | - | 1 | 21 | 22 | 22 | 8.6 | 180 | 8 | 15 | - | 1.29 | - | 20 | | | | | | | | | | | | | |
| Trunk----- | - | - | 4 | 85 | 89 | 90 | 35.0 | 1,138 | 24 | 140 | .06 | 5.21 | 351 | 386 | | | | | | | | | | | | | |
| Arm (above wrist)----- | 1 | - | - | 6 | 6 | 6 | 2.3 | - | 33 | 33 | - | .35 | - | 12 | | | | | | | | | | | | | |
| Wrist, hand, fingers----- | - | - | 2 | 38 | 40 | 40 | 15.6 | 75 | 14 | 17 | - | 2.34 | - | 41 | | | | | | | | | | | | | |
| Leg (above ankle)----- | - | - | - | 33 | 33 | 33 | 12.8 | - | 36 | 36 | - | 1.93 | - | 69 | | | | | | | | | | | | | |
| Ankle, foot, toes----- | - | - | 2 | 42 | 44 | 44 | 17.1 | 300 | 31 | 43 | - | 2.58 | - | 112 | | | | | | | | | | | | | |
| Multiple----- | 2 | - | - | 10 | 10 | 12 | 4.7 | - | 61 | 1,051 | .12 | .59 | 703 | 36 | | | | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 42 | 42 | 42 | - | - | 17 | 17 | - | 2.46 | - | 42 | | | | | | | | | | | | | |
| Total or average----- | 3 | 1 | 9 | 286 | 296 | 299 | - | 609 | 24 | 122 | .18 | 17.33 | 1,054 | 1,075 | | | | | | | | | | | | | |
| OTHER SURFACE MINING | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Eye----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Trunk----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Arm (above wrist)----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Wrist, hand, fingers----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Leg (above ankle)----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Ankle, foot, toes----- | - | - | - | 1 | 1 | 1 | 100.0 | - | 1 | 1 | - | 5.95 | - | 6 | | | | | | | | | | | | | |
| Multiple----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |
| Total or average----- | - | - | - | 1 | 1 | 1 | - | - | 1 | 1 | - | 5.95 | - | 6 | | | | | | | | | | | | | |
| Total or average, mining----- | 15 | 2 | 20 | 719 | 741 | 756 | - | 700 | 22 | 175 | .53 | 25.95 | 3,152 | 1,470 | | | | | | | | | | | | | |
| MILLS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Head, face, neck (excl. eye)----- | 3 | - | - | 50 | 50 | 53 | 3.9 | - | 13 | 352 | .05 | .90 | 323 | 11 | | | | | | | | | | | | | |
| Eye----- | - | - | 1 | 76 | 77 | 77 | 5.7 | 1,800 | 6 | 30 | - | 1.38 | - | 41 | | | | | | | | | | | | | |
| Trunk----- | - | 1 | 13 | 435 | 449 | 449 | 33.1 | 492 | 22 | 49 | - | 8.06 | - | 397 | | | | | | | | | | | | | |
| Arm (above wrist)----- | - | - | 2 | 62 | 64 | 64 | 4.7 | 2,340 | 26 | 98 | - | 1.15 | - | 113 | | | | | | | | | | | | | |
| Wrist, hand, fingers----- | - | - | 26 | 246 | 272 | 272 | 20.1 | 398 | 16 | 52 | - | 4.88 | - | 256 | | | | | | | | | | | | | |
| Leg (above ankle)----- | 3 | 1 | 1 | 149 | 151 | 154 | 11.4 | 450 | 23 | 181 | .05 | 2.71 | 323 | 178 | | | | | | | | | | | | | |
| Ankle, foot, toes----- | - | - | 2 | 227 | 229 | 229 | 16.9 | 138 | 17 | 18 | - | 4.11 | - | 75 | | | | | | | | | | | | | |
| Multiple----- | 3 | - | - | 55 | 55 | 58 | 4.3 | - | 32 | 341 | .05 | .99 | 323 | 32 | | | | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 220 | 220 | 220 | - | - | 20 | 20 | - | 3.95 | - | 81 | | | | | | | | | | | | | |
| Total or average, mills----- | 9 | 2 | 45 | 1,520 | 1,567 | 1,576 | - | 533 | 20 | 76 | .16 | 28.12 | 969 | 1,184 | | | | | | | | | | | | | |
| Grand total or average----- | 24 | 4 | 65 | 2,239 | 2,308 | 2,332 | - | 584 | 21 | 108 | .28 | 27.39 | 1,709 | 1,281 | | | | | | | | | | | | | |

1/ Number of injuries for which part of body is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 387; for surface, 61; for open pit, 257; for other surface mining, 1; and for mills, 1,356. Distribution percentages may not add to 100.0 because of independent rounding.

TABLE B-5. - Injuries, distribution, average severity by degree, and injury rates at nonmetal mines and mills in the United States,
by general work location and nature of injury, 1971

| General work location and nature of injury | Injuries | | | | | | Percent- age distr- butio n of all injuries 1/ | Average severity | | | Frequency rates per million man-hours | | Severity rates per million man-hours | | | | | | | | | |
|---|----------|-----------|---------|-------------------------|-----------------|---------------------------|--|-------------------------|-----------------|-------|---|-------|--|--|--|--|--|--|--|--|--|--|
| | Fatal | Nonfatal | | | All injuries | Perma- nent partial | | Tempo- rary total | All injuries | Fatal | Non- fatal | Fatal | Non- fatal | | | | | | | | | |
| | | Permanent | | Tempo- rary total | | | | | | | | | | | | | | | | | | |
| | | Total | Partial | All | | | | | | | | | | | | | | | | | | |
| UNDERGROUND MINES | | | | | | | | | | | | | | | | | | | | | | |
| Underground (including shaft and slope): | | | | | | | | | | | | | | | | | | | | | | |
| Amputation, enucleation----- | - | - | 6 | - | 6 | 1.6 | 895 | - | 895 | - | 0.70 | - | 622 | | | | | | | | | |
| Asphyxiation----- | 7 | - | - | 2 | 9 | 2.3 | - | 2 | 4,667 | 0.81 | .23 | 4,867 | (2/) | | | | | | | | | |
| Crushing, contusion, bruise----- | 4 | - | - | 107 | 107 | 111 | 28.7 | - | 11 | 227 | .46 | 12.40 | 2,781 | | | | | | | | | |
| Burn, scald (except chemical)----- | - | - | - | 9 | 9 | 9 | 2.3 | - | 16 | 16 | - | 1.04 | - | | | | | | | | | |
| Chemical burn----- | - | - | - | 2 | 2 | .5 | - | - | 3 | 3 | - | .23 | - | | | | | | | | | |
| Cut, laceration, puncture----- | - | - | - | 49 | 49 | 49 | 12.7 | - | 20 | 20 | - | 5.68 | - | | | | | | | | | |
| Foreign body in eye----- | - | - | - | 7 | 7 | 7 | 1.8 | - | 34 | 34 | - | .81 | 28 | | | | | | | | | |
| Fracture----- | 1 | 1 | 1 | 47 | 49 | 50 | 12.9 | 1,500 | 49 | 316 | .12 | 5.68 | 695 | | | | | | | | | |
| Hernia (inguinal)----- | - | - | 1 | 4 | 5 | 5 | 1.3 | - | 50 | 61 | - | .58 | - | | | | | | | | | |
| Strain, sprain, dislocation----- | - | - | - | 134 | 134 | 134 | 34.6 | - | 24 | 24 | - | 15.53 | - | | | | | | | | | |
| Pneumoconiosis (except silicosis)----- | - | - | - | 1 | 1 | .3 | - | - | 66 | 66 | - | .12 | 8 | | | | | | | | | |
| Concussion (cerebral)----- | - | - | - | 3 | 3 | .8 | - | - | 39 | 39 | - | .35 | - | | | | | | | | | |
| Hernia (except inguinal)----- | - | - | - | 1 | 1 | .3 | - | - | 17 | 17 | - | .12 | 2 | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 6 | 6 | - | - | - | 24 | 24 | - | .70 | - | | | | | | | | | |
| Total or average----- | 12 | 1 | 8 | 372 | 381 | 393 | - | 865 | 23 | 238 | 1.39 | 44.15 | 8,343 | | | | | | | | | |
| Surface at underground: | | | | | | | | | | | | | | | | | | | | | | |
| Amputation, enucleation----- | - | - | 3 | - | 3 | 4.9 | 530 | - | 530 | - | 1.12 | - | 593 | | | | | | | | | |
| Asphyxiation----- | - | - | - | 1 | 1 | 1.6 | - | 5 | 5 | - | .37 | - | 2 | | | | | | | | | |
| Crushing, contusion, bruise----- | - | - | - | 6 | 6 | 9.8 | - | 5 | 5 | - | 2.24 | - | 11 | | | | | | | | | |
| Burn, scald (except chemical)----- | - | - | - | 4 | 4 | 4 | 6.6 | - | 7 | 7 | - | 1.49 | - | | | | | | | | | |
| Chemical burn----- | - | - | - | 2 | 2 | 3.3 | - | - | 4 | 4 | - | .75 | - | | | | | | | | | |
| Radiation, radiating substance----- | - | - | - | 1 | 1 | 1.6 | - | - | 1 | 1 | - | .37 | - | | | | | | | | | |
| Cut, laceration, puncture----- | - | - | - | 6 | 6 | 9.8 | - | - | 9 | 9 | - | 2.24 | - | | | | | | | | | |
| Dermatitis----- | - | - | - | 2 | 2 | 3.3 | - | - | 3 | 3 | - | .75 | - | | | | | | | | | |
| Foreign body in eye----- | - | - | - | 1 | 1 | 1.6 | - | - | 5 | 5 | - | .37 | - | | | | | | | | | |
| Fracture----- | - | - | - | 2 | 2 | 3.3 | - | - | 5 | 5 | - | .75 | - | | | | | | | | | |
| Hernia (inguinal)----- | - | - | - | 1 | 1 | 1.6 | - | - | 39 | 39 | - | .37 | - | | | | | | | | | |
| Strain, sprain, dislocation----- | - | - | - | 32 | 32 | 32 | 52.5 | - | 7 | 7 | - | 11.94 | - | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 2 | 2 | - | - | - | 17 | 17 | - | .75 | - | | | | | | | | | |
| Total or average----- | - | - | 3 | 60 | 63 | 63 | - | 530 | 7 | 32 | - | 23.51 | - | | | | | | | | | |
| Total or average, underground mines----- | 12 | 1 | 11 | 432 | 444 | 456 | - | 774 | 21 | 210 | 1.06 | 39.26 | 6,366 | | | | | | | | | |
| OPEN PIT MINES | | | | | | | | | | | | | | | | | | | | | | |
| Amputation, enucleation----- | - | - | 4 | - | 4 | 1.6 | 188 | - | 188 | - | .23 | - | 44 | | | | | | | | | |
| Asphyxiation----- | - | - | - | 3 | 3 | 1.2 | - | 8 | 8 | - | .18 | - | 1 | | | | | | | | | |
| Crushing, contusion, bruise----- | 2 | - | - | 53 | 53 | 55 | 21.4 | - | 17 | 235 | .12 | 3.10 | 703 | | | | | | | | | |
| Burn, scald (except chemical)----- | - | - | - | 8 | 8 | 8 | 3.1 | - | 42 | 42 | - | .47 | - | | | | | | | | | |
| Chemical burn----- | - | - | - | 1 | 1 | 1 | .4 | - | 28 | 28 | - | .06 | - | | | | | | | | | |
| Radiation, radiating substance----- | - | - | - | 2 | 2 | .8 | - | - | 4 | 4 | - | .12 | - | | | | | | | | | |
| Cut, laceration, puncture----- | - | - | - | 24 | 24 | 24 | 9.3 | - | 17 | 17 | - | 1.41 | - | | | | | | | | | |
| Dermatitis----- | - | - | - | 1 | 1 | 1 | .4 | - | 1 | 1 | - | .06 | - | | | | | | | | | |
| Foreign body in eye----- | - | - | - | 18 | 19 | 19 | 7.4 | 180 | 7 | 16 | - | 1.11 | - | | | | | | | | | |
| Fracture----- | 1 | - | - | 36 | 36 | 37 | 14.4 | - | 55 | 215 | .06 | 2.11 | 351 | | | | | | | | | |
| Hernia (inguinal)----- | - | - | 1 | 4 | 5 | 1.9 | 50 | 53 | - | - | .29 | - | 15 | | | | | | | | | |
| Poisoning (systemic)----- | - | - | - | 1 | 1 | .4 | - | 1 | 1 | - | .06 | - | (2/) | | | | | | | | | |
| Strain, sprain, dislocation----- | - | - | 3 | 89 | 92 | 92 | 35.8 | 1,500 | 22 | 71 | - | 5.39 | - | | | | | | | | | |
| Concussion (cerebral)----- | - | 1 | - | - | 1 | 1 | .4 | - | - | 6,000 | - | .06 | - | | | | | | | | | |
| Hernia (except inguinal)----- | - | - | - | 3 | 3 | 3 | 1.2 | - | 50 | 50 | - | .18 | - | | | | | | | | | |
| Inflammation or irritation of joints, tendons, muscles----- | - | - | - | 1 | 1 | .4 | - | - | 4 | 4 | - | .06 | - | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 42 | 42 | 42 | - | - | 17 | 17 | - | 2.46 | - | | | | | | | | | |
| Total or average----- | 3 | 1 | 9 | 286 | 296 | 299 | - | 609 | 24 | 122 | .18 | 17.33 | 1,054 | | | | | | | | | |
| OTHER SURFACE MINING | | | | | | | | | | | | | | | | | | | | | | |
| Crushing, contusion, bruise----- | - | - | - | 1 | 1 | 1 | 100.0 | - | 1 | 1 | - | 5.95 | - | | | | | | | | | |
| Total or average----- | - | - | - | 1 | 1 | 1 | - | - | 1 | 1 | - | 5.95 | - | | | | | | | | | |
| Total or average, mining----- | 15 | 2 | 20 | 719 | 741 | 756 | - | 700 | 22 | 175 | .53 | 25.95 | 3,152 | | | | | | | | | |
| 1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 387; for surface, 61; for open pit, 257; for other surface mining, 1; and for mills, 1,356. Distribution percentages may not add to 100.0 because of independent rounding. | | | | | | | | | | | | | | | | | | | | | | |
| 2/ Less than 0.5. | | | | | | | | | | | | | | | | | | | | | | |

1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 387; for surface, 61; for open pit, 257; for other surface mining, 1; and for mills, 1,356. Distribution percentages may not add to 100.0 because of independent rounding.

2/ Less than 0.5.

TABLE B-5. - Injuries, distribution, average severity by degree, and injury rates at nonmetal mines and mills in the United States, by general work location and nature of injury, 1971 - Continued

| General work location and nature of injury | Injuries | | | | | | | Percent-age distribution of all injuries 1/ | Average severity | | | Frequency rates per million man-hours | | Severity rates per million man-hours | | | | | | | | | | | |
|---|----------|-----------|---------|-----------------|-----------------|--------------|-------------------|--|------------------|-------|-----------|---------------------------------------|-----------|--------------------------------------|-----------|--|--|--|--|--|--|--|--|--|--|
| | Fatal | Nonfatal | | | | All injuries | Permanent partial | Temporary total | All injuries | Fatal | Non-fatal | Fatal | Non-fatal | Fatal | Non-fatal | | | | | | | | | | |
| | | Permanent | | Temporary total | Total non-fatal | | | | | | | | | | | | | | | | | | | | |
| | | Total | Partial | | | | | | | | | | | | | | | | | | | | | | |
| MILLS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amputation, enucleation----- | 2 | 1 | 27 | - | 28 | 30 | 2.2 | 574 | - | 1,116 | 0.04 | 0.50 | 215 | 386 | | | | | | | | | | | |
| Asphyxiation----- | - | - | - | 9 | 9 | 9 | .7 | - | 9 | 9 | -.16 | - | 1 | | | | | | | | | | | | |
| Crushing, contusion, bruise----- | 7 | - | 1 | 352 | 353 | 360 | 26.5 | 75 | 12 | 128 | .13 | 6.33 | 754 | 75 | | | | | | | | | | | |
| Burn, scald (except chemical)----- | - | - | - | 40 | 40 | 40 | 2.9 | - | 25 | 25 | -.72 | - | 18 | | | | | | | | | | | | |
| Chemical burn----- | - | - | - | 20 | 20 | 20 | 1.5 | - | 8 | 8 | .36 | - | 3 | | | | | | | | | | | | |
| Radiation, radiating substance----- | - | - | - | 8 | 8 | 8 | .6 | - | 8 | 8 | .14 | - | 1 | | | | | | | | | | | | |
| Cut, laceration, puncture----- | - | - | 1 | 161 | 162 | 162 | 11.9 | 180 | 12 | 13 | - | 2.91 | - | 39 | | | | | | | | | | | |
| Dermatitis----- | - | - | - | 2 | 2 | 2 | .1 | - | 4 | 4 | -.04 | - | (2/) | | | | | | | | | | | | |
| Electric shock----- | - | - | - | 2 | 2 | 2 | .1 | - | 10 | 10 | -.04 | - | (2/) | | | | | | | | | | | | |
| Foreign body in eye----- | - | - | - | 59 | 59 | 59 | 4.4 | - | 6 | 6 | 1.06 | - | 6 | | | | | | | | | | | | |
| Fracture----- | - | - | 3 | 153 | 156 | 156 | 11.5 | 605 | 44 | 55 | - | 2.80 | - | 154 | | | | | | | | | | | |
| Heat exhaustion, sunstroke----- | - | - | - | 4 | 4 | 4 | .3 | - | 5 | 5 | -.07 | - | (2/) | | | | | | | | | | | | |
| Hernia (inguinal)----- | - | - | 10 | 15 | 25 | 25 | 1.8 | 50 | 50 | 50 | -.45 | - | 22 | | | | | | | | | | | | |
| Poisoning (systemic)----- | - | - | - | 1 | 1 | 1 | .1 | - | 2 | 2 | .02 | - | (2/) | | | | | | | | | | | | |
| Strain, sprain, dislocation----- | - | - | 2 | 463 | 465 | 465 | 34.3 | 1,950 | 20 | 28 | 8.34 | - | 234 | | | | | | | | | | | | |
| Silicosis----- | - | 1 | 1 | - | 2 | 2 | .1 | 2,000 | - | 4,000 | -.04 | - | 144 | | | | | | | | | | | | |
| Concussion (cerebral)----- | - | - | - | 1 | 1 | 1 | .1 | - | 265 | 265 | .02 | - | 5 | | | | | | | | | | | | |
| Hernia (except inguinal)----- | - | - | - | 9 | 9 | 9 | .7 | - | 84 | 84 | .16 | - | 14 | | | | | | | | | | | | |
| Inflammation or irritation of joints, tendons, muscles----- | - | - | - | 1 | 1 | 1 | .1 | - | 28 | 28 | -.02 | - | 1 | | | | | | | | | | | | |
| Unclassified (no data)----- | - | - | - | 220 | 220 | 220 | - | - | 20 | 20 | 3.95 | - | 81 | | | | | | | | | | | | |
| Total or average, mills----- | 9 | 2 | 45 | 1,520 | 1,567 | 1,576 | - | 533 | 20 | 76 | .16 | 28.12 | 969 | 1,184 | | | | | | | | | | | |
| Grand total or average----- | 24 | 4 | 65 | 2,239 | 2,308 | 2,332 | - | 584 | 21 | 108 | .28 | 27.39 | 1,709 | 1,281 | | | | | | | | | | | |

1/ Number of injuries for which nature of injury is "Unclassified" is excluded in calculating percentages. Therefore, 100 percent for underground is 387; for surface, 61; for open pit, 257; for other surface mining, 1; and for mills, 1,356. Distribution percentages may not add to 100.0 because of independent rounding.

2/ Less than 0.5.

TABLE B-6. - Injury experience and worktime data on nonmetal mines and mills in the United States by general work location and employment size group, 1971

| General work location and employment size group | Injuries | | | Frequency rates per million man-hours | | | Severity rates per million man-hours | | | Active operations | Average men working daily | Average days active | Man-days worked | Man-hours worked |
|---|----------|----------|-------|---------------------------------------|----------|--------|--------------------------------------|----------|--------|-------------------|---------------------------|---------------------|-----------------|------------------|
| | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | | | | | |
| | | | | | | | | | | | | | | |
| Underground mines (includes surface work): | | | | | | | | | | | | | | |
| 1-4----- | - | 7 | 7 | - | 35.76 | 16,355 | 930 | 18,061 | 51 | 141 | 169 | 23,819 | 195,735 | |
| 5-9----- | 1 | 20 | 21 | 2.73 | 54.52 | 57.24 | 917 | 50,144 | 32 | 206 | 219 | 45,042 | 366,838 | |
| 10-19----- | 8 | 36 | 44 | 8.36 | 37.61 | 50.97 | 51,061 | 1,606 | 35 | 4,88 | 246 | 119,820 | 957,241 | |
| 20-24----- | - | 55 | 55 | - | 68.84 | 68.84 | 1,606 | 1,606 | 13 | 357 | 277 | 78,983 | 78,983 | |
| 25-49----- | - | 21 | 21 | 42.15 | 42.15 | - | 4,445 | 4,445 | 5 | 217 | 287 | 62,274 | 498,198 | |
| 50-99----- | - | 64 | 64 | 41.64 | 41.64 | - | 5,129 | 5,129 | 10 | 717 | 269 | 192,733 | 1,336,972 | |
| 100-149----- | - | 122 | 123 | .35 | 43.04 | 43.39 | 2,117 | 1,089 | 3,05 | 1,146 | 307 | 352,136 | 2,834,666 | |
| 150-249----- | 1 | 89 | 90 | .39 | 34.86 | 2,350 | 2,445 | 4,795 | 5 | 928 | 342 | 317,018 | 2,552,943 | |
| 250 or more----- | 1 | 30 | 31 | .64 | 19.13 | 19.77 | 3,827 | 879 | 4,706 | 2 | 618 | 320 | 197,505 | 1,567,847 |
| Total or average----- | 12 | 444 | 456 | 1.06 | 39.26 | 40.32 | 6,366 | 2,089 | 8,455 | 163 | 4,818 | 293 | 1,409,350 | 11,309,406 |
| Open pit mines: | | | | | | | | | | | | | | |
| 1-4----- | 2 | 72 | 74 | .56 | 20.14 | 20.70 | 3,357 | 850 | 4,207 | 1,375 | 2,614 | 169 | 441,268 | 3,574,757 |
| 5-9----- | 1 | 42 | 43 | .34 | 14.21 | 14.55 | 4,37 | 2,031 | 6,000 | 285 | 1,819 | 196 | 356,406 | 2,954,835 |
| 10-19----- | - | 60 | 60 | - | 24.72 | 24.72 | - | - | 1,212 | 92 | 1,203 | 244 | 2,226,917 | 2,226,917 |
| 20-34----- | - | 36 | 36 | - | 23.22 | 23.22 | - | - | 1,212 | 28 | 747 | 256 | 190,922 | 1,550,524 |
| 35-49----- | - | 11 | 11 | - | 10.22 | 10.22 | - | - | 10,592 | 11 | 4,43 | 304 | 134,498 | 1,035,995 |
| 50-99----- | - | 46 | 46 | - | 12.81 | 12.81 | - | - | 1,889 | 22 | 1,989 | 295 | 441,912 | 3,591,558 |
| 100-149----- | - | 28 | 28 | - | 22.84 | 22.84 | - | - | 595 | 4 | 525 | 292 | 153,257 | 1,226,057 |
| 150-249----- | - | 1 | 1 | - | 1.48 | 1.48 | - | - | 163 | 2 | 329 | 257 | 84,597 | 676,779 |
| Total or average----- | 3 | 296 | 299 | .18 | 17.33 | 17.51 | 1,054 | 1,075 | 2,129 | 1,819 | 9,179 | 228 | 2,095,997 | 17,077,422 |
| Other surface mining: | | | | | | | | | | | | | | |
| 1-4----- | - | 1 | 1 | - | 20.26 | 20.26 | - | - | 20 | 13 | 22 | 280 | 6,171 | 49,364 |
| 5-9----- | - | - | - | - | - | - | - | - | - | 1 | 5 | 170 | 850 | 6,758 |
| 10-19----- | - | - | - | - | - | - | - | - | - | 4 | 45 | 311 | 13,793 | 111,944 |
| Total or average----- | - | 1 | 1 | - | 5.95 | 5.95 | - | - | 6 | 6 | 18 | 72 | 292 | 168,166 |
| Total or average, mining----- | 15 | 741 | 756 | .53 | 25.95 | 26.48 | 3,152 | 1,470 | 4,622 | 2,000 | 14,069 | 251 | 3,526,361 | 28,554,934 |
| Mills: | | | | | | | | | | | | | | |
| 1-4----- | 3 | 37 | 40 | 3.33 | 41.12 | 44.46 | 20,006 | 8,721 | 28,727 | 241 | 528 | 208 | 110,039 | 899,717 |
| 5-9----- | - | 57 | 57 | - | 29.28 | 29.28 | - | - | 1,031 | 903 | 253 | 238,639 | 1,946,831 | |
| 10-19----- | 1 | 178 | 179 | .19 | 34.14 | 36.33 | 1,151 | 1,039 | 2,190 | 171 | 2,459 | 263 | 5,213,815 | 5,213,815 |
| 20-34----- | - | 289 | 289 | - | 31.87 | 31.87 | - | - | 1,615 | 151 | 3,990 | 282 | 1,126,403 | 9,066,874 |
| 35-49----- | 1 | 211 | 212 | .17 | 36.16 | 36.33 | 1,028 | 1,117 | 2,445 | 62 | 2,541 | 285 | 723,389 | 5,835,403 |
| 50-99----- | 2 | 487 | 489 | .12 | 28.40 | 28.40 | 697 | 1,667 | 1,08 | 7,386 | 290 | 2,141,191 | 17,218,631 | |
| 100-149----- | 1 | 57 | 58 | .16 | 9.23 | 9.39 | 971 | 365 | 1,336 | 21 | 2,625 | 293 | 768,299 | 6,178,542 |
| 150-249----- | 1 | 102 | 102 | .22 | 21.27 | 21.27 | - | - | 615 | 11 | 2,159 | 278 | 600,475 | 4,778,897 |
| 250 or more----- | 1 | 149 | 150 | .22 | 32.62 | 32.84 | 1,314 | 912 | 2,226 | 5 | 1,689 | 338 | 570,922 | 4,567,389 |
| Total or average, mills----- | 9 | 1,567 | 1,576 | .16 | 28.12 | 28.28 | 969 | 1,184 | 2,153 | 912 | 24,320 | 285 | 6,926,372 | 55,723,029 |
| Grand total or average----- | 24 | 2,308 | 2,332 | .28 | 27.39 | 27.67 | 1,709 | 1,281 | 2,989 | 2,912 | 38,359 | 272 | 10,452,733 | 84,277,963 |

TABLE B-7. - Injuries by degree at nonmetal mines and mills in the United States, by State ^{1/}, 1971

| State | Injuries | | | | | | | | | | | | |
|---------------------|----------|-----------|---------|-------------------------|------------------------|----------------------|-------|-----------|---------|-------------------------|------------------------|-------|-------|
| | At mines | | | | | | | At mills | | | | | |
| | Fatal | Nonfatal | | | | All inju- ries | Fatal | Nonfatal | | | All inju- ries | | |
| | | Permanent | | Tempo- rary total | Total non- fatal | | | Permanent | | Tempo- rary total | Total non- fatal | | |
| | | Total | Partial | | | | | Total | Partial | | | | |
| Alabama----- | - | - | - | 13 | 13 | 13 | 1 | - | - | 20 | 20 | 21 | |
| Arizona----- | 1 | - | - | 3 | 3 | 4 | - | - | - | 18 | 18 | 18 | |
| Arkansas----- | - | - | - | 21 | 21 | 21 | - | - | 2 | 49 | 51 | 51 | |
| California----- | - | - | - | 47 | 47 | 47 | - | 1 | 3 | 192 | 196 | 196 | |
| Colorado----- | - | - | - | 7 | 7 | 7 | - | - | 1 | 10 | 11 | 11 | |
| Connecticut----- | - | - | - | 2 | 2 | 2 | - | - | - | 2 | 2 | 2 | |
| Florida----- | - | - | 2 | 27 | 29 | 29 | 1 | - | 5 | 44 | 49 | 50 | |
| Georgia----- | - | - | - | 34 | 34 | 34 | 1 | 1 | 5 | 211 | 217 | 218 | |
| Hawaii----- | - | - | - | 2 | 2 | 2 | - | - | - | 1 | 1 | 1 | |
| Idaho----- | 1 | - | - | 3 | 3 | 4 | - | - | 1 | 7 | 8 | 8 | |
| Illinois----- | 7 | - | 2 | 30 | 32 | 39 | - | - | 1 | 58 | 59 | 59 | |
| Indiana----- | - | - | - | 4 | 4 | 4 | - | - | 1 | 12 | 13 | 13 | |
| Iowa----- | - | - | - | 3 | 3 | 3 | - | - | - | 48 | 48 | 48 | |
| Kansas----- | - | - | - | 3 | 3 | 3 | - | - | 2 | 31 | 33 | 33 | |
| Kentucky----- | - | - | 1 | 35 | 36 | 36 | - | - | - | 18 | 18 | 18 | |
| Louisiana----- | - | - | 1 | 50 | 51 | 51 | - | - | 1 | 35 | 36 | 36 | |
| Maine----- | - | - | - | 2 | 2 | 2 | - | - | - | 6 | 6 | 6 | |
| Maryland----- | - | - | - | - | - | - | - | - | - | 6 | 6 | 6 | |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | 16 | 16 | 16 | |
| Michigan----- | - | - | - | 26 | 26 | 26 | - | - | 1 | 25 | 26 | 26 | |
| Minnesota----- | - | - | - | - | - | - | 1 | - | - | 11 | 11 | 12 | |
| Mississippi----- | - | - | - | - | - | - | - | - | - | 23 | 23 | 23 | |
| Missouri----- | 1 | - | 1 | 17 | 18 | 19 | - | - | 1 | 24 | 25 | 25 | |
| Montana----- | - | - | 1 | 16 | 17 | 17 | - | - | - | 21 | 21 | 21 | |
| Nevada----- | - | - | - | 8 | 8 | 8 | - | - | 1 | 33 | 34 | 34 | |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | |
| New Jersey----- | - | - | - | 1 | 1 | 1 | 1 | - | - | 18 | 18 | 19 | |
| New Mexico----- | 3 | - | 6 | 136 | 142 | 145 | 1 | - | 1 | 23 | 24 | 25 | |
| New York----- | - | - | 1 | 40 | 41 | 41 | - | - | 2 | 36 | 38 | 38 | |
| North Carolina----- | - | - | - | 18 | 18 | 18 | 2 | - | 5 | 89 | 94 | 96 | |
| Ohio----- | 1 | - | 2 | 45 | 47 | 48 | - | - | 3 | 59 | 62 | 62 | |
| Oklahoma----- | - | - | 1 | 6 | 7 | 7 | - | - | 1 | 31 | 32 | 32 | |
| Oregon----- | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | |
| Pennsylvania----- | - | - | 1 | 20 | 21 | 21 | - | - | 1 | 69 | 70 | 70 | |
| South Carolina----- | - | - | - | 9 | 9 | 9 | - | - | 1 | 68 | 69 | 69 | |
| South Dakota----- | - | - | - | 2 | 2 | 2 | 1 | - | 1 | 8 | 9 | 10 | |
| Tennessee----- | - | - | - | 11 | 11 | 11 | - | - | 1 | 21 | 22 | 22 | |
| Texas----- | - | - | 1 | 16 | 17 | 17 | - | - | 3 | 119 | 122 | 122 | |
| Utah----- | 1 | - | - | 31 | 31 | 32 | - | - | - | 3 | 3 | 3 | |
| Vermont----- | - | - | 1 | 14 | 15 | 15 | - | - | - | 9 | 9 | 9 | |
| Virginia----- | - | - | 1 | - | 3 | 4 | - | - | 1 | 15 | 16 | 16 | |
| Washington----- | - | - | - | - | - | - | - | - | - | 3 | 3 | 3 | |
| West Virginia----- | - | - | - | 1 | 1 | 1 | - | - | - | 3 | 3 | 3 | |
| Wyoming----- | - | - | - | 13 | 13 | 13 | - | - | - | 23 | 23 | 23 | |
| Total----- | | 15 | 2 | 20 | 719 | 741 | 756 | 9 | 2 | 45 | 1,520 | 1,567 | 1,576 |

^{1/} No injuries were reported at nonmetal mines and mills for States not listed.

TABLE B-8. - Fatal injuries by general work location and main cause at nonmetal mines and mills in the United States, by State ^{1/}, 1971.

| State | Underground mines | Open pit mines | Mills | Grand total | |
|---------------------|-------------------|----------------|--------------------------------------|--------------------------|--------------|
| | | | | Total, mining activities | Total, miles |
| | | | Machinery | 1 | 1 |
| | | | Haulage | 1 | 1 |
| | | | Total, open pit mines | 1 | 1 |
| | | | Machinery | 1 | 1 |
| | | | Haulage | 1 | 1 |
| | | | Total, underground workings | 1 | 1 |
| | | | Suffocation (no flame or smoldering) | 1 | 1 |
| | | | Machinery | 1 | 1 |
| | | | Explosives | 1 | 1 |
| | | | Falls of roof or back | 1 | 1 |
| | | | Total, miles | 6 | 9 |
| | | | Total | 24 | |
| Alabama----- | 3 | 1 | 7 | 12 | 1 |
| Arizona----- | | | | 2 | |
| Florida----- | | | | 1 | |
| Georgia----- | | | | 3 | |
| Idaho----- | | | | 1 | |
| Illinois----- | | | | 7 | |
| Minnesota----- | | | | 1 | |
| Missouri----- | | | | 1 | |
| New Jersey----- | | | | 3 | |
| New Mexico----- | | | | 1 | |
| North Carolina----- | | | | 1 | |
| Ohio----- | | | | 1 | |
| South Dakota----- | | | | 1 | |
| Utah----- | | | | 1 | |
| Total----- | 3 | 1 | 7 | 12 | 1 |
| | | | | 2 | |
| | | | | 3 | |
| | | | | 15 | |
| | | | | 3 | |
| | | | | 6 | |
| | | | | 9 | |

^{1/} No fatal injuries were reported at nonmetal mines and mills for work locations or States not listed.

TABLE B-9. - Nonfatal injuries by general work location and main cause at nonmetal mines and mills in the United States, by State^{1/}, 1971.

| State | Underground mines | | Surface | | Total, underground miles |
|---------------------|-------------------|--------------------|-------------|----------------|--------------------------|
| | Underground | Total, underground | Underground | Total, surface | |
| Alabama----- | - | - | - | - | - |
| Arizona----- | 2 | 3 | 1 | 1 | 19 |
| Arkansas----- | 1 | 1 | 1 | 1 | 4 |
| California----- | 2 | 1 | 1 | 1 | - |
| Colorado----- | 1 | 1 | 1 | 1 | - |
| Connecticut----- | - | - | - | - | - |
| Florida----- | - | - | - | - | - |
| Georgia----- | - | - | - | - | - |
| Hawaii----- | - | - | - | - | - |
| Idaho----- | - | - | - | - | - |
| Illinois----- | 5 | 4 | 10 | 1 | 29 |
| Indiana----- | - | - | - | - | - |
| Iowa----- | - | - | - | - | - |
| Kansas----- | - | - | - | - | - |
| Kentucky----- | 3 | 4 | 10 | 1 | 24 |
| Louisiana----- | 1 | 3 | 1 | 1 | 6 |
| Maine----- | 1 | 6 | 1 | 1 | - |
| Maryland----- | - | - | - | - | - |
| Massachusetts----- | - | - | - | - | - |
| Michigan----- | - | - | - | - | - |
| Minnesota----- | - | - | - | - | - |
| Mississippi----- | - | - | - | - | - |
| Missouri----- | - | - | - | - | - |
| Montana----- | - | - | - | - | - |
| Nevada----- | - | - | - | - | - |
| New Hampshire----- | - | - | - | - | - |
| New Jersey----- | 7 | 1 | 39 | 7 | 19 |
| New Mexico----- | 1 | 6 | 11 | 2 | 20 |
| New York----- | 2 | 4 | 7 | 2 | 8 |
| North Carolina----- | 1 | 2 | 14 | 3 | 14 |
| Ohio----- | 1 | 2 | 5 | 2 | 4 |
| Oklahoma----- | - | - | 4 | 1 | 1 |
| Oregon----- | - | - | 1 | 1 | 1 |
| Pennsylvania----- | 1 | 1 | 3 | 1 | 4 |
| South Carolina----- | - | - | - | - | - |
| South Dakota----- | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - |
| Texas----- | - | - | - | - | - |
| Utah----- | 5 | 3 | 1 | 2 | 2 |
| Vermont----- | 2 | 1 | 2 | 1 | 1 |
| Virginia----- | 1 | 1 | 1 | 1 | 1 |
| Washington----- | - | - | - | - | - |
| West Virginia----- | 1 | 1 | 1 | 1 | 1 |
| Wyoming----- | - | - | - | - | - |
| Total----- | 34 | 5 | 17 | 51 | 121 |
| | | | 22 | 9 | 64 |
| | | | 6 | 1 | 1 |
| | | | 32 | 2 | 11 |
| | | | 1 | 6 | 381 |
| | | | 6 | 1 | 1 |
| | | | 25 | 3 | 4 |
| | | | 1 | 6 | 1 |
| | | | 7 | 1 | 7 |
| | | | 63 | 644 | 63 |

^{1/} No nonfatal injuries were reported at nonmetal mines and mills for the States not listed.

TABLE B-9. - Nonfatal injuries by general work location and main cause at nonmetal mines and mills in the United States, by State 1/ , 1971 - Continued

| State | Open pit mines | | Other surface mining | | Mills | | Grand total, mills | |
|---------------------|----------------|-------|----------------------|-------|-------|-------|--------------------|----|
| | Local | Other | Local | Other | Local | Other | | |
| Alabama----- | 1 | 4 | - | 1 | - | 13 | 1 | 33 |
| Arizona----- | - | - | - | - | 4 | 1 | 21 | |
| Arkansas----- | - | - | 2 | - | 2 | 2 | 21 | |
| California----- | 1 | 7 | - | 40 | 1 | 21 | 72 | |
| Colorado----- | - | 2 | - | 4 | - | 2 | 243 | |
| Connecticut----- | - | 10 | - | 1 | 2 | 2 | 18 | |
| Florida----- | 6 | 16 | 5 | 1 | 2 | 2 | 49 | |
| Georgia----- | - | 1 | - | 2 | - | 2 | 217 | |
| Hawaii----- | - | 1 | - | 3 | - | 1 | 3 | |
| Idaho----- | - | 1 | - | 3 | - | 1 | 8 | |
| Illinois----- | - | 1 | - | 3 | 32 | 1 | 59 | |
| Indiana----- | - | 1 | - | 4 | - | 1 | 91 | |
| Iowa----- | - | 1 | - | 3 | - | 1 | 17 | |
| Kansas----- | - | 1 | - | 2 | - | 1 | 3 | |
| Kentucky----- | 1 | 2 | - | 1 | - | 1 | 36 | |
| Louisiana----- | - | 2 | - | 1 | - | 1 | 87 | |
| Maine----- | - | 1 | - | 2 | - | 1 | 6 | |
| Maryland----- | - | 1 | - | 1 | - | 1 | 8 | |
| Massachusetts----- | - | 1 | - | 1 | - | 1 | 6 | |
| Michigan----- | 5 | 4 | - | 3 | - | 1 | 16 | |
| Minnesota----- | - | 1 | - | 1 | - | 1 | 26 | |
| Mississippi----- | - | 1 | - | 3 | - | 1 | 52 | |
| Missouri----- | 1 | 5 | 4 | 1 | - | 1 | 11 | |
| Montana----- | 1 | 2 | 1 | 3 | - | 1 | 11 | |
| Nevada----- | - | 2 | - | 4 | - | 1 | 23 | |
| New Hampshire----- | - | 1 | - | 6 | - | 1 | 23 | |
| New Jersey----- | - | 1 | - | 7 | - | 1 | 43 | |
| New Mexico----- | - | 1 | - | 8 | - | 1 | 43 | |
| New York----- | - | 1 | - | 18 | - | 1 | 36 | |
| North Carolina----- | 3 | 5 | 6 | 3 | - | 1 | 87 | |
| Ohio----- | 2 | 2 | - | 5 | - | 1 | 94 | |
| Oklahoma----- | 1 | 2 | - | 2 | - | 1 | 109 | |
| Oregon----- | 3 | 1 | - | 1 | - | 1 | 62 | |
| Pennsylvania----- | 3 | 1 | - | 3 | - | 1 | 32 | |
| South Carolina----- | - | 1 | - | 3 | - | 1 | 39 | |
| South Dakota----- | - | 1 | - | 1 | - | 1 | 42 | |
| Tennessee----- | - | 1 | - | 5 | - | 1 | 1 | |
| Texas----- | 1 | 2 | - | 11 | - | 1 | 22 | |
| Utah----- | - | 1 | - | 1 | - | 1 | 33 | |
| Vermont----- | - | 1 | - | 1 | - | 1 | 122 | |
| Virginia----- | - | 2 | - | 3 | - | 1 | 1 | |
| Washington----- | - | 1 | - | 1 | - | 1 | 34 | |
| West Virginia----- | - | 2 | - | 1 | - | 1 | 20 | |
| Wyoming----- | - | 1 | - | 4 | - | 1 | 3 | |
| Total----- | 3 | 49 | 94 | 29 | 3 | 57 | 1,567 | |
| | | | | | | | 2,308 | |

1/ No nonfatal injuries were reported at nonmetal mines and mills for the States not listed.

TABLE B-10. - Injuries by general work location and main cause at nonmetal mines and mills in the United States,
by degree of injury and mineral industry, 1971

| Degree of injury and mineral industry | Underground mines | | | | | | | | | | | | | | | | | Total, underground |
|--|-----------------------|-----------------------|---|---------------------------|-------------------|-----------|---|--|---------|---------------------------|------------|-------------|-----------|---|----------------------|----------------|-----|--------------------|
| | Underground | | | | | | | | | | | | | | | | | |
| | Falls of roof or back | Falls of face or side | Sliding or falling material or objects | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Explosions of gas or dust | Explosives | Electricity | Machinery | Suffocation (no flame or smoldering) | Miscellaneous causes | Pneumoconiosis | | |
| Fatal and nonfatal: | | | | | | | | | | | | | | | | | | |
| Clay----- | 1 | 3 | - | 2 | 5 | 1 | 1 | - | 5 | - | 1 | - | 2 | - | - | - | 21 | |
| Gypsum----- | 1 | - | - | 1 | 2 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | 4 | |
| Phosphate rock----- | 2 | - | - | 1 | 6 | 1 | - | - | 1 | - | - | - | 1 | - | - | - | 12 | |
| Potash----- | 9 | 1 | 6 | 11 | 39 | 7 | 3 | 2 | 20 | - | - | 3 | 1 | - | - | - | 112 | |
| Salt----- | 3 | 1 | 5 | 18 | 32 | 7 | 4 | - | 23 | - | - | 3 | 13 | - | - | - | 113 | |
| Miscellaneous nonmetals----- | 21 | - | 6 | 19 | 37 | 6 | 1 | 2 | 14 | 1 | 1 | - | 11 | 8 | 3 | 1 | 131 | |
| Total----- | 37 | 5 | 17 | 51 | 121 | 22 | 9 | 4 | 64 | 1 | 2 | 6 | 33 | 9 | 11 | 1 | 393 | |
| Fatal: | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phosphate rock----- | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| Potash----- | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | 8 | |
| Total----- | 3 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 7 | - | - | 12 |
| Permanent total: | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total----- | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| Permanent partial: | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| Potash----- | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 4 | |
| Salt----- | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 2 | |
| Miscellaneous nonmetals----- | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total----- | 1 | - | - | - | 2 | - | - | - | 3 | - | - | 1 | 1 | - | - | - | 8 | |
| Temporary total: | | | | | | | | | | | | | | | | | | |
| Clay----- | 1 | 3 | - | 2 | 5 | 1 | 1 | - | 4 | - | 1 | - | 2 | - | - | - | 20 | |
| Gypsum----- | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | |
| Phosphate rock----- | 1 | - | - | 1 | 6 | 1 | - | - | 1 | - | - | - | 1 | - | - | - | 11 | |
| Potash----- | 7 | 1 | 6 | 11 | 38 | 7 | 3 | 2 | 19 | - | - | 2 | 4 | 1 | 4 | - | 105 | |
| Salt----- | 3 | 1 | 5 | 18 | 32 | 7 | 4 | - | 23 | - | - | 3 | 13 | - | 4 | - | 113 | |
| Miscellaneous nonmetals----- | 20 | - | 6 | 19 | 36 | 6 | 1 | 2 | 14 | 1 | - | - | 11 | 1 | 3 | 1 | 121 | |
| Total----- | 32 | 5 | 17 | 51 | 119 | 22 | 9 | 4 | 61 | 1 | 1 | 5 | 31 | 2 | 11 | 1 | 372 | |

TABLE B-10. - Injuries by general work location and main cause at nonmetal mines and mills in the United States,
by degree of injury and mineral industry, 1971 - Continued

| Degree of injury and mineral industry | Underground mines - continued | | | | | | | | | | | | Open pit mines | | | | | | | | | | | |
|--|-------------------------------|-------------------|-----------|--|-------------------------------------|---------|-------------|-----------|--------------------------------------|----------------------|----------------|--------------------------|---------------------------|-------------------|-----------|--|-----------|---------------------------------|----------------------|-----------------|-----|----|-----|--|
| | Surface | | | | | | | | | | | | | | | | | | | | | | | |
| | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Striking or bumping against objects | Haulage | Electricity | Machinery | Suffocation (no flame or smoldering) | Miscellaneous causes | Total, surface | Total, underground mines | Slips or falls of persons | Handling material | Handtools | Stepping or kneeling on sharp or loose objects | Machinery | Fires or suffocation from fires | Miscellaneous causes | Total, open pit | | | | |
| Fatal and nonfatal: | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | 21 | 1 | 27 | 46 | 11 | - | 27 | 1 | 9 | 147 | | | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | 3 | 1 | - | 2 | - | - | 11 | | | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 7 | 9 | 6 | - | 2 | - | - | 35 | | | |
| Potash----- | 7 | 12 | 2 | 3 | 1 | 3 | 1 | 4 | 1 | 4 | 33 | 145 | - | - | - | - | - | - | - | - | - | - | - | |
| Salt----- | 4 | 8 | 1 | 1 | 6 | 3 | 1 | 4 | - | 3 | 25 | 138 | - | - | - | - | - | - | - | - | - | - | 1 | |
| Miscellaneous nonmetals----- | - | 5 | - | - | - | - | - | - | - | - | 5 | 136 | 2 | 12 | 35 | 11 | 2 | 24 | - | 14 | - | 5 | 105 | |
| Total----- | 11 | 25 | 3 | 4 | 1 | 6 | 1 | 4 | 1 | 7 | 63 | 456 | 3 | 49 | 94 | 29 | 3 | 58 | 1 | 45 | 1 | 16 | 299 | |
| Fatal: | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | |
| Permanent total:: | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| Total----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| Permanent partial: | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Potash----- | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Salt----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Total----- | - | 2 | - | - | - | 1 | - | - | - | - | 3 | 11 | - | - | 2 | 1 | - | 3 | - | 2 | - | 1 | 9 | |
| Temporary total: | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | 20 | 1 | 27 | 44 | 10 | - | 24 | 1 | 25 | 1 | 9 | 142 | |
| Gypsum----- | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 3 | 1 | - | 2 | - | 1 | - | - | 10 | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 7 | 9 | 6 | 1 | 7 | - | 2 | - | 1 | 33 | |
| Potash----- | 7 | 10 | 2 | 3 | 1 | 3 | 2 | 1 | 4 | 1 | 4 | 31 | 136 | - | - | - | - | - | - | - | - | - | 1 | |
| Salt----- | 4 | 8 | 1 | 1 | 6 | 2 | 1 | 4 | - | 3 | 24 | 137 | - | - | 1 | - | - | - | - | - | - | - | 1 | |
| Miscellaneous nonmetals----- | - | 5 | - | - | - | - | - | - | - | - | 5 | 126 | 2 | 12 | 35 | 11 | 2 | 20 | - | 13 | - | 5 | 100 | |
| Total----- | 11 | 23 | 3 | 4 | 1 | 5 | 1 | 4 | 1 | 7 | 60 | 432 | 3 | 49 | 92 | 28 | 3 | 53 | 1 | 41 | 1 | 15 | 286 | |

TABLE B-10. - Injuries by general work location and main cause at nonmetal mines and mills in the United States, by degree of injury and mineral industry, 1971 - Continued

| Degree of injury and mineral industry | | Other surface mining | | Mills | | | | | | | | | | | | | | | Grand total | | | | | | | | | | | | |
|---------------------------------------|---|----------------------|-----|-----------------------------|-----|--|----|-----------|----|--|---|-------------------------------------|-----|---------|----|---------------------------|-----|-------------|-------------|-----------|--|--------------------------------------|--|---------------------------------|--|----------------------|----|----------------|--|--------------|--|
| | | | | Total, other surface mining | | Total, mining activities | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Handling material | | Sliding or falling material or objects | | Handtools | | Stepping or kneeling on sharp or loose objects | | Striking or bumping against objects | | Haulage | | Explosions of gas or dust | | Electricity | | Machinery | | Suffocation (no flame or smoldering) | | Fires or suffocation from fires | | Miscellaneous causes | | Pneumoconiosis | | Total, mills | |
| Fatal and nonfatal: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | 168 | 12 | 165 | 407 | 46 | 12 | 7 | 238 | 2 | 6 | 141 | 4 | 1 | 71 | 1 | 1,113 | 1,281 | | | | | | | | | | | | |
| Gypsum----- | - | - | 15 | - | 9 | 13 | 1 | 2 | - | 6 | - | - | 5 | - | - | 1 | 1 | 37 | 52 | | | | | | | | | | | | |
| Phosphate rock----- | - | - | 47 | - | 9 | 16 | 2 | - | 1 | 5 | - | 1 | 6 | - | - | 2 | 2 | - | 41 | 88 | | | | | | | | | | | |
| Potash----- | - | - | 145 | 1 | 2 | 5 | 1 | - | 1 | 2 | - | - | 2 | - | - | 1 | 1 | - | 15 | 160 | | | | | | | | | | | |
| Salt----- | 1 | 1 | 140 | 2 | 9 | 13 | - | - | 4 | 9 | - | - | 2 | - | - | 1 | 1 | - | 35 | 175 | | | | | | | | | | | |
| Miscellaneous nonmetals----- | - | - | 241 | 2 | 69 | 125 | 25 | 6 | 40 | - | 1 | 37 | 3 | 1 | 21 | 1 | 335 | 576 | | | | | | | | | | | | | |
| Total----- | 1 | 1 | 756 | 17 | 263 | 579 | 75 | 20 | 12 | 300 | 2 | 8 | 193 | 7 | 2 | 96 | 2 | 1,576 | 2,332 | | | | | | | | | | | | |
| Fatal: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | 1 | - | - | - | - | - | - | 2 | - | - | 5 | - | - | - | - | - | 7 | 8 | | | | | | | | | | | |
| Gypsum----- | - | - | 1 | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 1 | 2 | | | | | | | | | | | |
| Phosphate rock----- | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 4 | | | | | | | | | | | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Salt----- | - | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | 10 | | | | | |
| Total----- | - | - | 15 | - | - | - | - | - | - | 3 | - | - | 6 | - | - | - | - | - | - | - | | | | | | 9 | 24 | | | | |
| Permanent total: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | | | | | | 1 | | | | | |
| Gypsum----- | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | 2 | | | | | | | | | | | |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Potash----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Salt----- | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | 1 | | | | | |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Total----- | - | - | 2 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | 2 | | | | | | 4 | | | | | |
| Permanent partial: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | 5 | - | 2 | 9 | - | - | - | 1 | - | 1 | 15 | - | - | - | - | - | - | - | | | | | | 28 | 33 | | | | |
| Gypsum----- | - | - | 2 | - | - | 1 | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 2 | 4 | | | | | | | | | | | |
| Phosphate rock----- | - | - | 2 | - | - | 3 | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 4 | 6 | | | | | | | | | | | |
| Potash----- | - | - | 6 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | 7 | | | | | | | | | | | |
| Salt----- | - | - | 1 | - | - | - | - | - | - | 2 | - | - | 3 | - | - | - | - | - | - | 1 | | | | | | 1 | | | | | |
| Miscellaneous nonmetals----- | - | - | 4 | - | - | 3 | 1 | - | - | 2 | - | - | 3 | - | - | - | - | - | 10 | 14 | | | | | | | | | | | |
| Total----- | - | - | 20 | - | 2 | 16 | 1 | - | - | 5 | - | 1 | 19 | - | - | - | - | - | 1 | 45 | | | | | | 65 | | | | | |
| Temporary total: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clay----- | - | - | 162 | 12 | 163 | 398 | 46 | 12 | 7 | 235 | 2 | 5 | 121 | 4 | 1 | 71 | - | - | 1,077 | 1,239 | | | | | | | | | | | |
| Gypsum----- | - | - | 12 | - | 9 | 12 | 1 | 2 | - | 5 | - | - | 4 | - | - | 1 | - | - | 34 | 46 | | | | | | | | | | | |
| Phosphate rock----- | - | - | 44 | - | 9 | 13 | 2 | - | - | 4 | - | 1 | 5 | - | - | 2 | - | - | 36 | 80 | | | | | | | | | | | |
| Potash----- | - | - | 136 | 1 | 2 | 5 | 1 | - | 1 | 1 | - | - | 1 | - | - | 1 | - | - | 13 | 149 | | | | | | | | | | | |
| Salt----- | 1 | 1 | 139 | 2 | 9 | 13 | - | - | - | 9 | - | - | 2 | - | - | - | - | - | 35 | 174 | | | | | | | | | | | |
| Miscellaneous nonmetals----- | - | - | 226 | 2 | 69 | 122 | 24 | 6 | 4 | 38 | - | 1 | 34 | 3 | 1 | 21 | - | - | 325 | 551 | | | | | | | | | | | |
| Total----- | 1 | 1 | 719 | 17 | 261 | 563 | 74 | 20 | 12 | 292 | 2 | 7 | 167 | 7 | 2 | 96 | - | - | 1,520 | 2,239 | | | | | | | | | | | |

TABLE B-11. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by mineral industry, 1971

| Mineral industry | Fatal | | | | | | Nonfatal | | | | | | |
|---------------------------------------|-------------------|----------------------|-------------------------|-------------------------|-------------|-------------------|-------------------|---------|-------------------------|-------------------------|----------------------|---------------------|----------------------|
| | Underground mines | | | Total mining activities | | | Underground mines | | | Total mining activities | | | |
| | Underground | Surface | Total | Mills | Grand total | Mills | Underground | Surface | Total | Open pit mines | Other surface mining | Mills | |
| Injuries | | | | | | | | | | | | | |
| Clay----- | - | - | - | 1 | 1 | 7 | 8 | 21 | - | 21 | 146 | - | |
| Gypsum----- | - | - | 1 | - | - | - | 4 | - | 4 | 11 | - | 1,106 | |
| Phosphate rock----- | 1 | - | 1 | - | 1 | 2 | 11 | - | 11 | 35 | - | 37 | |
| Porash----- | 3 | - | 3 | - | 3 | 4 | 109 | 33 | 142 | - | 142 | 40 | |
| Salt----- | - | - | - | - | - | 5 | 113 | 25 | 138 | 1 | 140 | 14 | |
| Miscellaneous nonmetals----- | 8 | - | 8 | 2 | - | 10 | 123 | 5 | 128 | 103 | - | 35 | |
| Total----- | 12 | - | 12 | 3 | - | 15 | 9 | 24 | 381 | 63 | 444 | 296 | |
| | | | | | | | | | | | 1 | 1,567 | |
| | | | | | | | | | | | | 2,308 | |
| Frequency rates per million man-hours | | | | | | | | | | | | | |
| Clay----- | - | - | 0.15 | - | 0.14 | 0.22 | 0.21 | 63.90 | - | 55.34 | 21.92 | - | |
| Gypsum----- | - | - | - | - | - | - | 7.63 | - | 5.73 | 9.77 | - | 23.72 | |
| Phosphate rock----- | 4.43 | - | - | .19 | .21 | .20 | 48.76 | - | 42.83 | 7.02 | - | 10.00 | |
| Porash----- | 1.17 | - | .86 | - | .86 | .60 | .78 | 42.69 | 36.97 | 40.61 | - | 8.22 | |
| Salt----- | - | - | 2.64 | .47 | - | - | - | 43.73 | 25.48 | 39.97 | 8.39 | 8.77 | |
| Miscellaneous nonmetals----- | 3.17 | - | - | - | 1.36 | - | .51 | 48.67 | 10.03 | 42.30 | - | 40.61 | |
| Combined rate----- | 1.39 | - | 1.06 | .18 | - | .53 | .16 | .28 | 44.15 | 23.51 | 39.26 | 19.52 | |
| | | | | | | | | | | | | 27.39 | |
| Severity rates per million man-hours | | | | | | | | | | | | | |
| Clay----- | - | - | 901 | - | 852 | 1,332 | 1,244 | 3,384 | - | 2,931 | 606 | - | |
| Gypsum----- | - | - | - | - | - | 1,144 | 1,241 | 1,640 | 14,343 | 10,774 | 642 | - | |
| Phosphate rock----- | 26.596 | - | 23,362 | - | - | 5,147 | 4,638 | 2,798 | - | 1,441 | 425 | - | |
| Porash----- | 7,050 | - | 5,147 | - | - | 5,147 | 3,624 | 2,947 | 929 | 2,946 | - | 2,944 | |
| Salt----- | - | - | 15,863 | - | - | 8,189 | - | - | 3,047 | 1,214 | 1,091 | 997 | |
| Miscellaneous nonmetals----- | 18,992 | - | - | - | - | - | - | - | 1,214 | 181 | 1,044 | 547 | |
| Combined rate----- | 8,343 | - | 6,366 | 1,054 | - | 3,132 | 969 | 1,709 | 2,501 | 761 | 2,089 | 1,075 | |
| | | | | | | | | | | | | 1,184 | |
| Average men working daily | | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | | |
| Under-ground mines | Open pit mines | Other surface mining | Total mining activities | | | Underground mines | | | Total mining activities | | | Average days active | |
| | | | Mills | Underground | Surface | Mills | Underground | Surface | Mills | Open pit mines | Other surface mining | Open pit mines | Other surface mining |
| Clay----- | 24 | 1,087 | - | 1,111 | 540 | 184 | 25 | 209 | 3,923 | - | 4,132 | 14,308 | 222 |
| Gypsum----- | 14 | 61 | - | 75 | 58 | 243 | 76 | 319 | 529 | - | 848 | 1,582 | 258 |
| Phosphate rock----- | 4 | 63 | - | 67 | 38 | 131 | 20 | 151 | 2,161 | - | 2,312 | 4,173 | 271 |
| Porash----- | 8 | - | 8 | - | 8 | 894 | 9 | 329 | 1,223 | - | 1,223 | 1,801 | 213 |
| Salt----- | 17 | 5 | 14 | 36 | 25 | 1,092 | 433 | 1,525 | - | 54 | 1,610 | 739 | 578 |
| Miscellaneous nonmetals----- | 96 | 603 | 4 | 703 | 242 | 1,154 | 237 | 1,391 | 2,535 | 18 | 5,252 | 9,196 | 282 |
| Total or average----- | 163 | 1,819 | 18 | 2,000 | 912 | 3,698 | 1,120 | 4,618 | 9,179 | 72 | 14,069 | 24,320 | 228 |
| | | | | | | | | | | | | 292 | 251 |
| | | | | | | | | | | | | | 285 |

TABLE B-11. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by mineral industry, 1971 - Continued

| Mineral industry | Man-days worked | | | | | | Man-hours worked | | | | | |
|------------------------------|-------------------|---------|-----------|-------------------------|-----------|-------------|-------------------|------------|-----------|----------------------|-------------------------|------------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Other surface mining | Total mining activities | Mills |
| Clay----- | 40,288 | 6,191 | 46,479 | 808,387 | - | 854,866 | 3,914,132 | 4,768,998 | 328,637 | 50,814 | 3,659,694 | 31,537,528 |
| Gypsum----- | 64,599 | 21,998 | 86,297 | 136,362 | - | 222,559 | 461,931 | 680,590 | 173,666 | 697,970 | 1,126,156 | 1,826,126 |
| Phosphate rock----- | 28,200 | 3,904 | 32,104 | 619,174 | - | 651,278 | 604,335 | 1,553,313 | 295,600 | 31,232 | 256,932 | 5,246,992 |
| Potash----- | 319,166 | 117,668 | 437,134 | - | - | 437,134 | 644,082 | 2,553,26 | 943,744 | 3,497,070 | - | 4,826,649 |
| Salt----- | 308,490 | 122,086 | 430,576 | 6,403 | 14,895 | 451,874 | 655,870 | 2,470,954 | 981,242 | 3,452,196 | 119,151 | 1,631,571 |
| Miscellaneous nonmetals----- | 314,722 | 62,038 | 376,760 | 908,550 | 1,535,330 | 2,443,880 | 6,119 | 2,527,401 | 4,98,486 | 3,025,887 | 4,232,488 | 48,955 |
| Total----- | 1,075,465 | 333,885 | 1,409,350 | 2,095,997 | 21,014 | 3,526,361 | 6,936,372 | 10,452,733 | 8,630,222 | 2,679,184 | 11,309,406 | 17,077,422 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

TABLE B-12. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by mineral industry, 1971

| Mineral industry | Fatal | | | | | | Nonfatal | | | | | |
|--|-------------------|---------|-------|-------------------------|-------|-------------|-------------------|---------|-------|----------------------|-------------------------|-------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Other surface mining | Total mining activities | Mills |
| Injuries | | | | | | | | | | | | |
| Asbestos----- | 1 | - | 1 | - | 1 | 1 | 1 | 18 | 1 | 19 | 4 | 5 |
| Baite----- | - | - | - | - | - | - | - | - | - | - | 33 | 30 |
| Boron minerals----- | - | - | - | - | - | - | - | - | - | - | 22 | 69 |
| Feldspar----- | - | - | 7 | - | 7 | 7 | 58 | 1 | 59 | 6 | 6 | 18 |
| Fluorspar----- | 7 | - | 7 | - | - | - | - | - | - | - | 60 | 16 |
| Magnesite----- | - | - | - | - | - | - | - | - | - | - | 3 | 23 |
| Mica----- | - | - | - | - | - | - | - | - | - | - | 6 | 6 |
| Pumice----- | - | - | - | - | - | - | - | - | - | - | 8 | 23 |
| Sodium compounds----- | - | - | - | - | - | - | - | 2 | - | - | 2 | 4 |
| Talc, soapstone, and papyrophyllite----- | - | - | - | - | - | - | - | - | - | - | 36 | 90 |
| Other nonmetals 1/----- | - | - | 1 | - | 1 | 1 | 23 | 2 | 25 | 11 | 56 | 84 |
| Total----- | 8 | - | 8 | 2 | - | 10 | 10 | 123 | 5 | 128 | 103 | 231 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

1/ Not elsewhere classified.

TABLE B-12. - Injury experience and work-time data by general work location at miscellaneous nonmetallic mines and mills in the United States, by mineral industry, 1971 - Continued

| Mineral industry | Fatal | | | | | | Nonfatal | | | | | |
|--|-------------------|----------------------|-------------------------|----------------|----------------------|-------------------------|-------------------|---------|----------------|----------------------|-------------------------|-------------------------|
| | Underground mines | | | Mills | | | Underground mines | | | Mills | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Asbestos----- | 30.58 | - | 23.64 | 1.65 | - | 3.31 | - | 0.94 | 30.58 | 23.64 | 15.42 | - |
| Barite----- | - | - | - | 1.29 | - | - | - | .49 | 129.09 | 33.78 | 112.40 | - |
| Boron minerals----- | - | - | - | - | - | - | - | - | - | 55.72 | - | - |
| Feldspar----- | 8.66 | - | 7.57 | - | - | 7.19 | - | 4.41 | 71.72 | 8.61 | 22.65 | - |
| Fluorite----- | - | - | - | - | - | - | - | - | - | 20.65 | - | - |
| Magnesite----- | - | - | - | - | - | - | - | - | - | 61.64 | 28.13 | 47.93 |
| Mica----- | - | - | - | - | - | - | - | - | - | 35.91 | - | - |
| Pumice----- | - | - | - | - | - | - | - | - | - | 19.96 | - | - |
| Sodium compounds----- | - | - | - | - | - | - | - | - | - | 2.03 | - | - |
| Talc, soapstone, and pyrophyllite----- | - | - | .57 | - | - | .44 | - | .19 | 71.87 | 25.55 | 32.51 | - |
| Other nonmetals 1/----- | - | - | - | - | - | - | - | - | 56.17 | 46.35 | 19.65 | - |
| Combined rate----- | 3.17 | - | 2.64 | .47 | - | 1.36 | - | .51 | 48.67 | 10.03 | 42.30 | 24.22 |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Asbestos----- | 183,464 | - | 141,831 | 9,875 | - | 19,884 | - | 5,639 | 703 | 203 | 544 | 23,227 |
| Barite----- | - | - | - | 7,726 | - | - | - | 2,962 | 2,732 | - | 2,289 | 867 |
| Boron minerals----- | - | - | - | - | - | - | - | - | - | 626 | - | - |
| Feldspar----- | - | - | - | 43,150 | - | - | - | 26,489 | 2,134 | - | 355 | - |
| Fluorite----- | 51,993 | - | 45,409 | - | - | - | - | - | - | 103 | 1,890 | - |
| Magnesite----- | - | - | - | - | - | - | - | - | - | 1,927 | - | - |
| Mica----- | - | - | - | - | - | - | - | - | - | 1,927 | - | - |
| Pumice----- | - | - | - | - | - | - | - | - | - | 324 | - | - |
| Sodium compounds----- | - | - | - | - | - | - | - | - | - | 89 | - | - |
| Talc, soapstone, and pyrophyllite----- | - | - | 3,433 | - | - | 2,655 | - | 1,131 | 1,737 | 664 | 1,526 | 1,005 |
| Other nonmetals 1/----- | - | - | - | - | - | - | - | - | 786 | 99 | 640 | 2,242 |
| Combined rate----- | 18,992 | - | 15,863 | 2,822 | - | 8,189 | - | 3,047 | 1,214 | 181 | 1,044 | 2,692 |
| Average men working daily | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | |
| Under-ground mines | Open Pit mines | Other surface mining | Total mining activities | Mills | Under-ground | Under-ground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Mills |
| Asbestos----- | 4 | 12 | 16 | 7 | 14 | 4 | 18 | 146 | - | 164 | 353 | 517 |
| Barite----- | 2 | 43 | 45 | 41 | 74 | 15 | 89 | 322 | - | 411 | 605 | 1,016 |
| Boron minerals----- | 1 | 1 | 2 | 3 | 3 | 3 | 6 | 137 | - | 143 | 443 | 586 |
| Feldspar----- | 2 | 75 | 77 | 16 | 18 | 18 | 18 | 182 | - | 200 | 367 | 567 |
| Fluorite----- | 34 | 16 | 50 | 13 | 282 | 59 | 441 | 58 | - | 499 | 746 | 262 |
| Magnesite----- | - | 2 | 50 | 3 | - | - | 40 | - | 40 | 211 | 251 | - |
| Mica----- | 1 | 49 | - | 3 | - | - | 3 | 69 | - | 72 | 252 | 324 |
| Pumice----- | - | 134 | 134 | 22 | 33 | - | - | 332 | - | 180 | 180 | 182 |
| Sodium compounds----- | 4 | 1 | 2 | 7 | 5 | 332 | 65 | 397 | 2 | 404 | 638 | 1,042 |
| Talc, soapstone, and pyrophyllite----- | 20 | 66 | 86 | 32 | 152 | 36 | 188 | 212 | 5 | 400 | 709 | 1,109 |
| Other nonmetals 1/----- | 28 | 204 | 234 | 67 | 176 | 55 | 231 | 1,035 | 13 | 1,279 | 1,267 | 2,526 |
| Combined rate----- | 96 | 603 | 4 | 703 | 242 | 1,154 | 237 | 1,391 | 2,535 | 18 | 3,944 | 5,252 |
| Total or average----- | - | - | - | - | - | - | - | - | - | 9,196 | 271 | 207 |
| Average days active | | | | | | | | | | | | |
| Mining activities | | | | | | | | | | | | |
| Under-ground mines | Open Pit mines | Other surface mining | Total mining activities | Mills | Under-ground | Under-ground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Mills |
| Asbestos----- | 4 | 12 | 16 | 7 | 14 | 4 | 18 | 146 | - | 164 | 353 | 517 |
| Barite----- | 2 | 43 | 45 | 41 | 74 | 15 | 89 | 322 | - | 411 | 605 | 1,016 |
| Boron minerals----- | 1 | 1 | 2 | 3 | 3 | 3 | 6 | 137 | - | 143 | 443 | 586 |
| Feldspar----- | 2 | 75 | 77 | 16 | 18 | 18 | 18 | 182 | - | 200 | 367 | 567 |
| Fluorite----- | 34 | 16 | 50 | 13 | 282 | 59 | 441 | 58 | - | 499 | 746 | 262 |
| Magnesite----- | - | 2 | 50 | 3 | - | - | 40 | - | 40 | 211 | 251 | - |
| Mica----- | 1 | 49 | - | 3 | - | - | 3 | 69 | - | 72 | 252 | 324 |
| Pumice----- | - | 134 | 134 | 22 | 33 | - | - | 332 | - | 180 | 180 | 182 |
| Sodium compounds----- | 4 | 1 | 2 | 7 | 5 | 332 | 65 | 397 | 2 | 404 | 638 | 1,042 |
| Talc, soapstone, and pyrophyllite----- | 20 | 66 | 86 | 32 | 152 | 36 | 188 | 212 | 5 | 400 | 709 | 1,109 |
| Other nonmetals 1/----- | 28 | 204 | 234 | 67 | 176 | 55 | 231 | 1,035 | 13 | 1,279 | 1,267 | 2,526 |
| Combined rate----- | 96 | 603 | 4 | 703 | 242 | 1,154 | 237 | 1,391 | 2,535 | 18 | 3,944 | 5,252 |
| Total or average----- | - | - | - | - | - | - | - | - | - | 9,196 | 271 | 207 |
| Mills | | | | | | | | | | | | |

1/ Not elsewhere classified.

TABLE B-12. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by mineral industry, 1971 - Continued

| Mineral industry | Man-days worked | | | | | | Man-hours worked | | | | | |
|---|-------------------|---------|---------|-------------------------|--------|-------------|------------------|-----------|-----------|-------------------|----------------------|-------------------------|
| | Underground mines | | | Open pit mines | | | Underground | | | Underground mines | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities |
| Asbestos----- | 4,088 | 1,200 | 5,288 | 32,313 | - | 37,601 | 95,286 | 132,887 | 32,704 | 9,600 | 42,304 | 259,445 |
| Baite----- | 17,214 | 3,636 | 20,870 | 74,601 | - | 95,471 | 154,805 | 250,276 | 139,440 | 29,600 | 169,040 | 607,608 |
| Boron minerals----- | 60 | 60 | 120 | 49,350 | - | 49,470 | 145,688 | 195,168 | 480 | 4,800 | 960 | 394,805 |
| Feldspar----- | 3,588 | - | 3,588 | 32,292 | - | 35,880 | 111,385 | 147,265 | 28,707 | - | - | 264,891 |
| Fluorspar----- | 101,095 | 14,524 | 115,619 | 6,053 | - | 121,672 | 76,538 | 198,200 | 808,778 | 116,192 | 924,920 | 28,707 |
| Magnesite----- | - | - | - | 10,443 | - | 53,723 | 64,166 | - | - | - | - | 83,544 |
| Mica----- | 280 | - | 280 | 12,816 | - | 68,904 | 81,720 | 2,240 | - | 2,240 | - | 107,498 |
| Pumice----- | - | - | - | 50,886 | - | 38,637 | 89,523 | - | - | - | - | 400,873 |
| Sodium compounds----- | 102,655 | 20,436 | 123,091 | 180 | 1,429 | 216,797 | 341,497 | 821,239 | 163,490 | 984,729 | 1,440 | 11,432 |
| Talc, soapstone, and pyrophyllite----- | 39,024 | 12,956 | 51,980 | 48,580 | 41,741 | 90,321 | 194,284 | 284,605 | 320,011 | 78,289 | 398,300 | 338,341 |
| Other nonmetals 1/ ----- | 46,718 | 12,606 | 59,324 | 215,276 | 4,690 | 279,290 | 658,573 | 373,832 | 100,835 | 474,667 | 1,747,863 | 37,523 |
| Total----- | 314,722 | 62,038 | 376,760 | 525,671 | 6,119 | 908,550 | 1,535,330 | 2,443,880 | 2,527,401 | 4,984,486 | 3,025,887 | 4,252,488 |
| | | | | | | | | | | | | 48,955 |
| | | | | | | | | | | | | 7,327,330 |
| | | | | | | | | | | | | 12,364,924 |
| | | | | | | | | | | | | 19,692,254 |

1/ Not elsewhere classified.

TABLE B-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1971

| State | Fatal | | | | Nonfatal | | | | Grand total |
|---------------------|-------------------|---------|----------------|----------------------|-------------------------|-------------------|---------|----------------|-------------|
| | Underground mines | | Open Pit mines | Other surface mining | Total mining activities | Underground mines | | Open pit mines | |
| | Underground | Surface | Total | Mills | Grand total | Underground | Surface | Total | |
| Injuries | | | | | | | | | |
| Alabama----- | - | - | - | - | 1 | 1 | - | - | 13 |
| Arizona----- | - | - | - | - | - | - | - | - | 18 |
| Arkansas----- | - | - | - | - | 1 | 1 | - | - | 15 |
| California----- | - | - | - | - | 10 | 10 | 10 | 10 | 43 |
| Colorado----- | - | - | - | - | - | - | - | - | 59 |
| Connecticut----- | - | - | - | - | 1 | 1 | 1 | 1 | 4 |
| Delaware----- | - | - | - | - | - | - | - | - | 4 |
| Florida----- | - | - | - | - | 1 | 1 | - | - | 2 |
| Georgia----- | - | - | - | - | 31 | 31 | 31 | 31 | 15 |
| Hawaii----- | - | - | - | - | - | - | - | - | 44 |
| Idaho----- | - | - | - | - | - | - | - | - | 69 |
| Illinois----- | - | - | - | - | 1 | 1 | 1 | 1 | 16 |
| Indiana----- | - | - | - | - | 3 | 3 | 3 | 3 | 2 |
| Iowa----- | - | - | - | - | 3 | 3 | 3 | 3 | 1 |
| Kansas----- | - | - | - | - | 11 | 11 | 11 | 11 | 1 |
| Louisiana----- | - | - | - | - | 3 | 3 | 3 | 3 | 1 |
| Kentucky----- | - | - | - | - | 1 | 1 | 1 | 1 | 1 |
| Maine----- | - | - | - | - | - | - | - | - | 1 |
| Maryland----- | - | - | - | - | - | - | - | - | 1 |
| Massachusetts----- | - | - | - | - | - | - | - | - | 1 |
| Michigan----- | - | - | - | - | 4 | 4 | 4 | 4 | 1 |
| Minnesota----- | - | - | - | - | - | - | - | - | 1 |
| Mississippi----- | - | - | - | - | - | - | - | - | 1 |
| Missouri----- | - | - | - | - | 6 | 6 | 6 | 6 | 1 |
| Montana----- | - | - | - | - | - | - | - | - | 1 |
| Nebraska----- | - | - | - | - | - | - | - | - | 1 |
| Nevada----- | - | - | - | - | - | - | - | - | 1 |
| New Hampshire----- | - | - | - | - | - | - | - | - | 1 |
| New Jersey----- | - | - | - | - | - | - | - | - | 1 |
| New Mexico----- | - | - | - | - | - | - | - | - | 1 |
| New York----- | - | - | - | - | - | - | - | - | 1 |
| Pennsylvania----- | - | - | - | - | - | - | - | - | 1 |
| Rhode Island----- | - | - | - | - | - | - | - | - | 1 |
| South Carolina----- | - | - | - | - | - | - | - | - | 1 |
| South Dakota----- | - | - | - | - | - | - | - | - | 1 |
| Tennessee----- | - | - | - | - | - | - | - | - | 1 |
| Texas----- | - | - | - | - | - | - | - | - | 1 |
| Utah----- | - | - | - | - | - | - | - | - | 1 |
| Virginia----- | - | - | - | - | - | - | - | - | 1 |
| Washington----- | - | - | - | - | - | - | - | - | 1 |
| Wisconsin----- | - | - | - | - | - | - | - | - | 1 |
| Wyoming----- | - | - | - | - | - | - | - | - | 1 |
| Total----- | 1 | 1 | 1 | 1 | 8 | 21 | 21 | 21 | 1,106 |

TABLE B-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1971 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------------------------|---------------------|---------|-------|-------------------------|-------------------------|-------|-------------------|-------------|---------|--------------------|----------------|----------------------|
| | Underground mines / | | | Total mining activities | | | Underground mines | | | Underground mining | | |
| | Underground | Surface | Total | Mills | Total mining activities | Mills | Grand total | Underground | Surface | Total | Open pit mines | Other surface mining |
| Frequency rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | 0.93 | 0.69 | - | - | - | - | 34.85 | - | 16.74 |
| Arizona----- | - | - | - | - | - | - | 16.65 | - | - | 172.65 | 112.41 | 48.11 |
| Arkansas----- | - | - | - | - | - | - | 63.32 | - | - | 50.33 | 62.75 | 16.05 |
| Colorado----- | - | - | - | - | - | - | - | - | - | 61.81 | 62.91 | 58.42 |
| Connecticut----- | - | - | - | - | - | - | 66.26 | - | - | 26.19 | 52.25 | - |
| Delaware----- | - | - | - | - | - | - | - | - | - | 4.30 | 4.30 | 17.58 |
| Florida----- | .13 | .11 | - | - | - | - | 21.12 | - | - | 21.12 | 27.31 | 26.29 |
| Georgia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Hawaii----- | - | - | - | - | - | - | - | - | - | 7.66 | 7.66 | 48.37 |
| Idaho----- | - | - | - | - | - | - | 31.48 | - | - | 31.39 | 42.36 | 38.89 |
| Illinois----- | - | - | - | - | - | - | 35.31 | - | - | 35.31 | 22.13 | 23.63 |
| Indiana----- | - | - | - | - | - | - | - | - | - | 95.20 | 86.57 | 59.22 |
| Iowa----- | - | - | - | - | - | - | - | - | - | 67.19 | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | 55.25 | 33.76 | 39.61 |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 20.32 | 32.73 | 39.99 |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 34.20 | 160.86 | 105.20 |
| Maine----- | - | - | - | - | - | - | - | - | - | - | 35.21 | 27.36 |
| Maryland----- | - | - | - | - | - | - | - | - | - | - | 111.78 | 101.84 |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | 30.06 | 30.06 | 22.53 |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | 41.62 | 39.59 |
| Minnesota----- | - | - | - | - | - | - | - | - | - | - | 29.00 | 22.38 |
| Mississippi----- | - | - | - | - | - | - | - | - | - | 24.14 | 38.82 | 31.96 |
| Missouri----- | - | - | - | - | - | - | - | - | - | - | 46.17 | 29.16 |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nebraska----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | 2.46 | 2.21 | - | .34 | - | - | - | 12.28 | - | 11.06 | 21.50 | 19.90 |
| Oklahoma----- | - | - | - | - | - | - | - | 40.29 | - | 40.29 | 60.28 | 58.29 |
| Oregon----- | - | - | - | - | - | - | - | - | - | - | 15.97 | 9.24 |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | 38.45 | 39.47 | 39.20 |
| South Carolina----- | - | - | - | - | - | - | - | - | - | 26.75 | 42.26 | 40.04 |
| South Dakota----- | - | - | - | - | - | - | - | - | - | 62.41 | 67.75 | 66.71 |
| Tennessee----- | - | - | - | - | - | - | - | - | - | 34.83 | 19.32 | 22.26 |
| Texas----- | - | - | - | - | - | - | - | - | - | 18.93 | 41.60 | 38.80 |
| Utah----- | - | - | - | - | - | - | - | - | - | 10.24 | 44.02 | 44.02 |
| Virginia----- | - | - | - | - | - | - | - | - | - | 13.76 | 12.86 | 12.94 |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia----- | - | - | - | - | - | - | - | - | - | 10.73 | 14.99 | 13.64 |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | 36.53 | 18.82 | 23.85 |
| Combined rate----- | - | .15 | - | .14 | .22 | .21 | 63.90 | - | - | 55.34 | 21.92 | 33.00 |
| | | | | | | | | | | - | 23.72 | 35.07 |

TABLE B-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1971 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|--------------------------------------|-------------------|---------|-------|---------|-------|-------|-------------------|-------------|---------|-------------------|----------------|----------------------|
| | Underground mines | | | Surface | | | Underground mines | | | Underground mines | | |
| | Underground | Surface | Total | Mills | Total | Mills | Grand total | Underground | Surface | Total | Open pit mines | Other surface mining |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | - | 5,581 | 4,143 | - | - | 651 | - |
| Arizona----- | - | - | - | - | - | - | - | - | - | 283 | 1,697 | 2,218 |
| Arkansas----- | - | - | - | - | - | - | - | - | - | 1,636 | 978 | 2,372 |
| California----- | - | - | - | - | - | - | - | - | - | - | 4,06 | 1,078 |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | 3,313 | 940 |
| Connecticut----- | - | - | - | - | - | - | - | - | - | - | - | 1,986 |
| Delaware----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | - | - | - | - | 301 | 415 | 386 |
| Georgia----- | - | - | - | - | - | - | - | - | - | 473 | 1,438 | 1,279 |
| Hawaii----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Illinois----- | - | - | - | - | - | - | - | - | - | 575 | 575 | 435 |
| Indiana----- | - | - | - | - | - | - | - | - | - | 157 | 157 | 941 |
| Iowa----- | - | - | - | - | - | - | - | - | - | 200 | 200 | 311 |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 552 | 552 | 526 |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 217 | 217 | 349 |
| Maine----- | - | - | - | - | - | - | - | - | - | 718 | 718 | 5,067 |
| Maryland----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Minnesota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Mississippi----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Missouri----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nebraska----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oregon----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | - | - | - |
| South Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - |
| South Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Tennessee----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| West Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | - | - | - | - | - | - | - | - | - | - | - | - |
| | 901 | - | - | 852 | 1,332 | 1,244 | 3,384 | - | - | 2,931 | 606 | - |
| | | | | | | | | | | 731 | 988 | 941 |

TABLE B-13. - Injury experience and worktime data by general work location at clay mines and mills in the United States, by State, 1971 - Continued

| State | Active operations | | | Average men working daily | | | | | | Average days active | | | | |
|-----------------------|-------------------|-------|-------------|---------------------------|-------|----------------|-------------------------|-------|-------------|---------------------|----------------|----------------------|-------------------------|-----|
| | Mines | Mills | Underground | Underground mines | | | Total mining activities | Mills | Grand total | Underground mines | Open pit mines | Other surface mining | Total mining activities | |
| | | | | Surface | Total | Open pit mines | | | | | | | | |
| Alabama----- | 49 | 25 | - | - | - | 207 | 488 | 695 | - | 215 | - | - | 215 | |
| Arizona----- | 9 | 2 | - | - | - | 31 | 35 | 66 | - | 188 | - | - | 310 | |
| Arkansas----- | 20 | 10 | - | - | - | 50 | 396 | 446 | - | 139 | - | - | 270 | |
| California----- | 64 | 26 | 6 | 6 | 158 | 164 | 438 | 602 | 80 | 125 | - | - | 263 | |
| Colorado----- | 52 | 7 | 15 | 15 | 133 | 148 | 67 | 215 | 181 | 70 | - | - | 285 | |
| Connecticut----- | 4 | 1 | - | - | 9 | 9 | 9 | 22 | 31 | - | 189 | - | 145 | |
| Delaware----- | 1 | 1 | - | - | 1 | - | 1 | 1 | - | 313 | - | - | 313 | |
| Florida----- | 17 | 7 | - | - | 104 | 104 | 270 | 374 | - | 273 | - | - | 307 | |
| Georgia----- | 36 | - | - | - | 657 | 657 | 2,950 | 3,607 | - | 275 | - | - | 315 | |
| Hawaii----- | 1 | 1 | - | - | 1 | 1 | 4 | 5 | - | 130 | - | - | 260 | |
| Idaho----- | 10 | 2 | - | - | 22 | 22 | 28 | 50 | - | 143 | - | - | 165 | |
| Illinois----- | 28 | 24 | - | - | 79 | 79 | 536 | 635 | - | 205 | - | - | 259 | |
| Indiana----- | 30 | 12 | 1 | 1 | 58 | 59 | 222 | 281 | 54 | 205 | - | - | 280 | |
| Iowa----- | 16 | 16 | - | - | 48 | 48 | 258 | 306 | - | 220 | - | - | 243 | |
| Kansas----- | 21 | 7 | - | - | 63 | 63 | 212 | 275 | - | 116 | - | - | 116 | |
| Kentucky----- | 44 | 10 | - | - | 149 | 149 | 232 | 401 | - | 166 | - | - | 264 | |
| Louisiana----- | 12 | 7 | - | - | 60 | 60 | 109 | 169 | - | 307 | - | - | 307 | |
| Maine----- | 6 | 1 | - | - | 26 | 26 | 26 | 45 | - | 141 | - | - | 141 | |
| Maryland----- | 12 | 9 | - | - | 30 | 30 | 85 | 115 | - | 200 | - | - | 200 | |
| Massachusetts----- | 3 | 2 | - | - | 7 | 7 | 64 | 71 | - | 237 | - | - | 237 | |
| Michigan----- | 9 | 7 | - | - | 92 | 92 | 267 | 359 | - | 154 | - | - | 154 | |
| Minnesota----- | 6 | 6 | - | - | 12 | 12 | 129 | 141 | - | 141 | - | - | 141 | |
| Mississippi----- | 34 | 23 | - | - | 158 | 158 | 372 | 530 | - | 183 | - | - | 183 | |
| Missouri----- | 56 | 7 | - | - | 151 | 151 | 125 | 276 | - | 202 | - | - | 202 | |
| Montana----- | 10 | 4 | - | - | 28 | 28 | 32 | 60 | - | 169 | - | - | 169 | |
| Nebraska----- | 5 | 3 | - | - | 7 | 7 | 4 | 11 | - | 244 | - | - | 236 | |
| Nevada----- | 2 | 2 | - | - | 3 | 9 | 12 | 12 | - | 275 | 6 | - | 73 | |
| New Hampshire----- | 2 | - | - | - | 2 | - | 2 | 23 | - | 262 | - | - | 262 | |
| New Jersey----- | 8 | 8 | - | - | 27 | 27 | 134 | 181 | - | 159 | - | - | 159 | |
| New Mexico----- | 7 | 4 | - | - | 11 | - | 61 | 72 | - | 111 | - | - | 111 | |
| New York----- | 11 | 10 | - | - | 83 | 83 | 266 | 349 | - | 184 | - | - | 184 | |
| North Carolina----- | 48 | 27 | - | - | 173 | 173 | 922 | 1,095 | - | 225 | - | - | 225 | |
| North Dakota----- | 2 | 1 | - | - | 173 | 173 | 4 | 11 | - | 22 | - | - | 22 | |
| Ohio----- | 45 | 18 | - | - | 22 | 259 | 281 | 1,211 | 1,492 | 255 | 192 | - | 197 | |
| Oklahoma----- | 101 | 9 | - | - | 31 | - | 31 | 232 | - | 208 | - | - | 242 | |
| Oregon----- | 14 | 8 | - | - | 3 | 31 | 34 | 40 | 74 | 79 | 177 | - | 168 | |
| Pennsylvania----- | 70 | 42 | 58 | 58 | 71 | 211 | 282 | 824 | 1,106 | 236 | 214 | - | 225 | |
| South Carolina----- | 41 | 23 | - | - | 13 | 144 | 144 | 734 | 878 | - | 221 | - | 221 | |
| South Dakota----- | 5 | 3 | - | - | 16 | - | 16 | 65 | 81 | 209 | - | - | 209 | |
| Tennessee----- | 22 | 20 | - | - | 120 | - | 120 | 458 | 578 | - | 225 | - | 225 | |
| Texas----- | 91 | 45 | - | - | 179 | 179 | 1,153 | 1,332 | - | 250 | - | - | 275 | |
| Utah----- | 14 | 2 | 50 | 1 | 51 | 61 | 112 | 15 | 127 | 167 | 152 | - | 155 | |
| Virginia----- | 18 | 13 | - | - | 42 | - | 42 | 298 | 340 | 195 | - | - | 195 | |
| Washington----- | 12 | 1 | - | - | 30 | - | 30 | 1 | 31 | 98 | - | - | 98 | |
| West Virginia----- | 6 | 5 | 30 | 7 | 37 | 9 | 46 | 115 | 161 | 266 | 215 | - | 215 | |
| Wisconsin----- | 2 | 2 | - | - | 6 | - | 6 | 12 | 18 | 214 | - | - | 214 | |
| Wyoming----- | 31 | 14 | - | - | - | 134 | 134 | 308 | 442 | - | 214 | - | - | 214 |
| Total or average----- | 1,111 | 540 | 184 | 25 | 209 | 3,923 | - | 4,132 | 14,308 | 222 | 206 | - | 207 | 274 |

TABLE B-13. - Injury experience and wartime data by general work location at clay mines and mills in the United States, by State, 1971 - Continued

| State | Man-days worked | | | | | | | | | | Man-hours worked | | | | | | |
|---------------------|-------------------|---------|---------|----------------|-------------|-----------|----------------------|-----------|-------------|-------------------|------------------|-----------|----------------------|-------------------------|-----------|-------------|------------|
| | Underground mines | | | Open pit mines | | | Other surface mining | | | Underground mines | | | Other surface mining | | Mills | | |
| | Underground | Surface | Total | Mills | Grand total | Mills | Total | Mills | Grand total | Underground | Surface | Total | Open pit mines | Total mining activities | Mills | Grand total | |
| Alabama----- | - | - | - | 44,509 | 132,168 | 176,677 | - | - | - | - | - | 373,035 | 1,075,119 | 1,448,154 | | | |
| Arkansas----- | - | - | - | 5,843 | 10,703 | 16,560 | - | - | - | - | - | 46,563 | 86,880 | 133,443 | | | |
| Arizona----- | - | - | - | 6,951 | 10,605 | 113,756 | - | - | - | - | - | 60,071 | 854,436 | 914,507 | | | |
| California----- | 4,833 | 19,674 | 20,157 | 135,167 | 3,864 | 3,864 | 137,924 | - | - | - | - | 937,788 | 1,039,636 | 1,039,636 | | | |
| Colorado----- | 2,709 | 9,292 | 12,001 | 115,093 | 31,094 | 21,674 | 167,72 | - | - | - | - | 152,747 | 96,546 | 152,747 | | | |
| Connecticut----- | - | - | - | 1,697 | 3,190 | 4,887 | - | - | - | - | - | 15,093 | 19,110 | 19,110 | | | |
| Delaware----- | - | - | - | 313 | 313 | 626 | - | - | - | - | - | 2,504 | 5,008 | 34,233 | | | |
| Florida----- | - | - | - | 28,436 | 82,925 | 111,361 | - | - | - | - | - | 222,385 | 677,504 | 677,504 | | | |
| Georgia----- | - | - | - | 180,797 | 98,842 | 1,109,039 | - | - | - | - | - | 1,468,063 | 7,433,034 | 9,901,081 | | | |
| Hawaii----- | - | 130 | 1,440 | 1,440 | 1,707 | 7,751 | 7,751 | - | - | - | - | 1,040 | 8,320 | 9,360 | | | |
| Idaho----- | - | 3,143 | 4,008 | 4,008 | 16,021 | 16,021 | 16,021 | - | - | - | - | 25,158 | 36,867 | 62,025 | | | |
| Illinois----- | - | 16,216 | 144,107 | 144,107 | 111,927 | 73,223 | 73,223 | - | - | - | - | 130,490 | 1,180,899 | 1,311,389 | | | |
| Indiana----- | 54 | 11,873 | 11,927 | 11,927 | 62,648 | 73,206 | 73,206 | - | - | - | - | 270 | 85,953 | 94,982 | | | |
| Iowa----- | - | 10,558 | 10,558 | 10,558 | 7,313 | 7,313 | 7,313 | - | - | - | - | - | 504,190 | 592,549 | | | |
| Kansas----- | - | - | - | 24,762 | 66,485 | 91,267 | - | - | - | - | - | - | 58,100 | 58,100 | 58,100 | | |
| Kentucky----- | - | - | - | 18,392 | 28,433 | 46,627 | - | - | - | - | - | - | 199,099 | 533,128 | 621,727 | | |
| Louisiana----- | - | 3,165 | 8,117 | 8,117 | 6,002 | 21,425 | 21,425 | - | - | - | - | - | 147,646 | 227,478 | 375,124 | | |
| Maine----- | - | 6,002 | 6,002 | 6,002 | 1,662 | 17,892 | 17,892 | - | - | - | - | - | 29,240 | 37,300 | 66,540 | | |
| Maryland----- | - | - | - | 14,135 | 14,135 | 19,354 | - | - | - | - | - | - | 48,914 | 170,401 | 219,315 | | |
| Massachusetts----- | - | - | - | 1,693 | 1,693 | 72,124 | 86,259 | - | - | - | - | - | 13,971 | 143,136 | 157,107 | | |
| Michigan----- | - | - | - | 28,876 | 34,814 | 34,814 | - | - | - | - | - | - | 13,057 | 577,250 | 710,307 | | |
| Minnesota----- | - | - | - | 30,534 | 35,601 | 66,135 | - | - | - | - | - | - | 236,600 | 793,300 | 1,027,630 | | |
| Mississippi----- | - | - | - | 4,739 | 8,123 | 12,062 | - | - | - | - | - | - | 248,536 | 283,368 | 531,904 | | |
| Missouri----- | - | - | - | 1,707 | 946 | 2,553 | - | - | - | - | - | - | 37,914 | 64,981 | 102,395 | | |
| Montana----- | - | - | - | 826 | 52 | 878 | 878 | - | - | - | - | - | 7,439 | 13,218 | 13,218 | | |
| Nebraska----- | - | - | - | - | - | - | - | - | - | - | - | - | - | 7,855 | - | 7,855 | |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4,200 | 45,320 | 49,312 |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 34,756 | 278,512 | 313,268 |
| New Jersey----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9,728 | 122,512 | 132,574 |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7,728 | 122,572 | 132,572 |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 121,965 | 620,280 | 762,265 |
| North Carolina----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 317,228 | 1,716,455 | 2,031,683 |
| North Dakota----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 688 | 688 | 1,103,888 |
| Ohio----- | 4,595 | 1,023 | 5,618 | 49,609 | 55,227 | 311,956 | 367,183 | 36,760 | 8,184 | 44,944 | 407,324 | 49,642 | 2,511,960 | 2,964,228 | 447,787 | | |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7,620 | 437,120 | 7,620 |
| Oregon----- | - | 238 | 3,152 | 8,210 | 5,721 | 13,350 | 1,900 | 1,900 | 1,900 | 43,712 | 43,712 | 45,612 | 62,627 | 108,239 | 177,572 | 278,512 | |
| Pennsylvania----- | - | 15,014 | 18,166 | 45,145 | 63,311 | 219,839 | 283,146 | 125,777 | 26,502 | 152,279 | 367,864 | 520,143 | 1,775,793 | 2,295,236 | 313,268 | | |
| Rhode Island----- | - | - | - | 15,244 | 21,244 | 92,105 | - | - | - | - | - | - | - | - | 121,965 | 1,716,455 | 2,031,683 |
| South Carolina----- | - | - | - | 38,916 | 211,655 | 250,571 | - | - | - | - | - | - | - | - | 317,228 | 239,672 | 247,194 |
| Tennessee----- | - | - | - | 84 | 86 | 1,210 | 1,296 | - | - | - | - | - | - | - | 369,777 | 369,777 | 369,777 |
| Texas----- | - | - | - | 44,753 | 317,640 | 362,393 | 22,715 | 66,769 | 1,504 | 68,313 | 74,299 | 162,612 | 39,112 | 181,724 | 2,620,033 | 2,989,810 | 2,989,810 |
| Utah----- | - | 8,539 | 193 | 9,287 | 17,826 | 4,889 | 96,456 | 96,456 | - | - | - | - | - | - | 72,689 | 70,078 | 70,078 |
| Virginia----- | - | - | - | 8,210 | 8,210 | 88,246 | 1,210 | 1,210 | - | - | - | - | - | - | 23,891 | 1,221 | 25,112 |
| Washington----- | - | 1,823 | 9,866 | 11,781 | 25,085 | 36,866 | 64,184 | 14,584 | 78,768 | - | - | - | - | - | 93,228 | 200,080 | 233,308 |
| West Virginia----- | - | - | - | 545 | 545 | 2,040 | 2,585 | - | - | - | - | - | - | - | 4,385 | 17,320 | 21,705 |
| Wisconsin----- | - | - | - | 28,673 | 84,305 | 112,978 | - | - | - | - | - | - | - | - | 273,784 | 690,670 | 964,454 |
| Total----- | 40,288 | 6,191 | 46,479 | 808,387 | - | 854,866 | 3,914,132 | 4,768,998 | 328,637 | 50,814 | 379,451 | - | - | - | 7,039,145 | 31,537,528 | 38,576,673 |

TABLE B-14. - Injury experience and worktime data by general work location at gypsum mines and mills in the United States, by State, 1971

| State | Fatal | | | Nonfatal | | | Grand total |
|---------------------------------------|-------------------|---------|-------|----------|-------------|---------------------------------|-------------|
| | Underground mines | | Total | Mills | Total | Other surface mining activities | |
| | Underground | Surface | Total | | Underground | Surface | Total |
| Injuries | | | | | | | |
| Arizona----- | - | - | - | - | - | - | - |
| Arkansas----- | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - |
| Indiana----- | - | - | - | - | - | - | - |
| Iowa----- | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - |
| Total----- | - | - | - | - | - | - | - |
| Frequency rates per million man-hours | | | | | | | |
| Arizona----- | - | - | - | - | - | - | - |
| Arkansas----- | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - |
| Indiana----- | - | - | - | - | - | - | - |
| Iowa----- | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - |
| Oklahoma----- | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - |
| Combined rate----- | - | - | - | - | - | - | - |

TABLE 8-14. - Injury experience and worktime data by general work location at Epsom mines and mills in the United States, by State, 1971 - Continued

| State | Fatal | | | | | | Nonfatal | | | | | |
|--------------------------------------|-------------------|---------|-------|-------------------------|-------|-------------|-------------------|---------|-------|-------------------|----------------------|-------------------------|
| | Underground mines | | | Mills | | | Underground mines | | | Underground mines | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities |
| Severity rates per million man-hours | | | | | | | | | | | | |
| Active operations | | | | | | | | | | | | |
| Average men working daily | | | | | | | | | | | | |
| Average days active | | | | | | | | | | | | |
| Mines | | | | | | | | | | | | |
| Underground mines | | | | | | | | | | | | |
| Underground | | | | | | | | | | | | |
| Arizona----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Arkansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| California----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Colorado----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Idaho----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Indiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Kansas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Louisiana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Michigan----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Montana----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New Mexico----- | - | - | - | - | - | - | - | - | - | - | - | - |
| New York----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Oregon----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Texas----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Utah----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Virginia----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Washington----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Combined rate----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Total or average----- | 75 | 58 | 243 | 76 | 319 | 529 | - | 848 | 1,582 | 2,430 | 271 | 258 |

TABLE B-14. - Injury experience and worktime data by general work location at gypsum mines and mills in the United States, by State, 1971 - Continued

| State | Man-days worked | | | | | | | | | | Man-hours worked | | | | | | | | | Mills | Grand total | | | |
|-----------------|---------------------|---------|--------|----------------|--------|---------|----------------------|---------|---------|-------------------------|------------------|-----------|--------------------|---------|---------|----------------|---|---|----------------------|-----------|-------------|--|--|--|
| | Underground mines / | | | Open pit mines | | | Other surface mining | | | Total mining activities | | | Underground mine s | | | Open pit mines | | | Other surface mining | | | | | |
| | Underground | Surface | Total | | | | | | | | | | Underground | Surface | Total | | | | | | | | | |
| Arizona----- | - | - | - | 3,212 | 14,080 | 17,222 | - | - | - | - | 25,691 | - | - | - | 112,642 | 136,333 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Arkansas----- | - | - | - | 13,420 | 45,467 | 58,887 | - | - | - | - | 107,410 | - | - | - | 363,137 | 471,147 | - | - | - | 1,824,126 | 3,698,559 | | | |
| California----- | - | - | - | 12,320 | 18,638 | 30,948 | - | - | - | - | 110,985 | - | - | - | 150,211 | 261,196 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Colorado----- | - | - | - | 2,434 | 18,319 | 20,873 | - | - | - | - | 19,472 | - | - | - | 19,472 | 147,512 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Idaho----- | - | - | - | 312 | - | 312 | - | - | - | - | 2,500 | - | - | - | 2,500 | 2,500 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Indiana----- | 2,161 | 11,171 | - | 11,171 | 83,842 | 95,013 | 72,080 | 17,286 | 89,366 | - | 89,366 | - | - | - | 670,756 | 760,122 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Iowa----- | 879 | 4,847 | - | 19,371 | 24,218 | 37,049 | 31,741 | 7,032 | 38,773 | - | 156,967 | - | - | - | 193,740 | 102,649 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Kansas----- | 3,985 | 6,099 | - | 7,677 | 33,506 | 41,181 | 31,962 | 16,992 | 48,934 | - | 12,553 | - | - | - | 61,587 | 268,037 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Louisiana----- | - | - | - | 6,624 | 31,650 | 38,264 | - | - | - | - | 55,992 | - | - | - | 55,992 | 253,119 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Michigan----- | 5,347 | 1,429 | - | 25,925 | 16,623 | 42,761 | 11,434 | 54,195 | - | - | 153,425 | - | - | - | 207,620 | 133,071 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Montana----- | - | 1,093 | - | 1,093 | 648 | 1,741 | 8,743 | - | - | - | 8,743 | - | - | - | 8,743 | 8,743 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Nevada----- | - | 45 | - | 45 | 7,967 | 50,351 | 58,318 | 360 | - | - | 360 | - | - | - | 63,367 | 63,727 | - | - | - | 1,824,126 | 3,698,559 | | | |
| New Mexico----- | - | - | - | 1,253 | - | 1,253 | - | - | - | - | 10,025 | - | - | - | 10,025 | 10,025 | - | - | - | 1,824,126 | 3,698,559 | | | |
| New York----- | 22,254 | 32,665 | - | 9,723 | 42,368 | 185,503 | 83,128 | 268,631 | - | - | 268,631 | - | - | - | 268,631 | 77,781 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Ohio----- | 4,800 | 1,200 | - | 3,605 | 9,304 | 12,048 | 38,400 | 9,600 | 48,000 | - | 17,152 | - | - | - | 17,152 | 65,152 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Oklahoma----- | - | - | - | 20,031 | - | 21,907 | - | - | - | - | 166,451 | - | - | - | 166,451 | 166,451 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Texas----- | - | - | - | 19,275 | 41,993 | 61,268 | - | - | - | - | 169,466 | - | - | - | 169,466 | 337,803 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Utah----- | - | - | - | 3,444 | 19,407 | 22,851 | - | - | - | - | 27,550 | - | - | - | 27,550 | 155,170 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Virginia----- | 14,097 | 3,524 | - | 17,621 | 11,621 | 11,621 | 112,774 | 28,194 | 140,968 | - | - | - | - | 140,968 | 140,968 | - | - | - | 1,824,126 | 3,698,559 | | | | |
| Washington----- | - | - | - | 90 | 90 | 840 | 31,898 | - | - | - | 720 | - | - | - | 720 | 720 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Wyoming----- | - | - | - | 3,754 | - | 3,754 | - | - | - | - | 31,350 | - | - | - | 31,350 | 31,350 | - | - | - | 1,824,126 | 3,698,559 | | | |
| Total----- | 64,599 | 21,698 | 86,297 | 136,362 | - | 222,659 | 461,931 | 684,590 | 524,304 | 173,666 | 697,970 | 1,126,156 | - | - | - | 1,126,156 | - | - | - | 1,824,126 | 3,698,559 | | | |

TABLE B-15. - Injury experience and worktime data by general work location at phosphate rock mines and mills in the United States, by State, 1971.

TABLE B-15. - Injury experience and worktime data by general work location at phosphate rock mines and mills in the United States, by State, 1971 - Continued

TABLE B-15. - Injury experience and worktime data by general work location at phosphate rock mines and mills in the United States, by State, 1971 - Continued

| State | Man-days worked | | | | | | | | | | Man-hours worked | | | | | |
|---------------------|-------------------|---------|--------|----------------|----------------------|-------------------------|---------|-------------|-------------|---------|-------------------|----------------|----------------------|-------------------------|-------------|-----------|
| | Underground mines | | | | | Underground mines | | | | | Underground mines | | | Total mining activities | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Mills | Grand total | Underground | Surface | Total | Open pit mines | Other surface mining | Mills | Grand total | |
| California----- | - | - | - | 800 | - | 800 | - | - | - | - | - | 6,403 | - | 6,403 | - | |
| Florida----- | - | - | - | 470,403 | 513,307 | 983,710 | 82,383 | 3,763,222 | - | - | - | 620,074 | 620,074 | 620,074 | 6,403 | |
| Montana----- | 24,570 | 3,024 | 27,594 | 75,216 | - | 75,216 | 7,167 | 82,383 | 31,419 | 196,560 | 24,192 | 220,732 | - | 220,732 | 678,401 | |
| North Carolina----- | - | - | - | 24,820 | - | 24,820 | 5,825 | 51,465 | 49,935 | - | - | 198,560 | - | 198,560 | 678,401 | |
| Tennessee----- | - | - | - | 30,176 | - | 30,176 | 19,839 | - | 2,776 | 2,776 | - | 250,778 | - | 250,778 | 678,401 | |
| Texas----- | 3,630 | 880 | 4,510 | - | 11,395 | - | 8,456 | 26,164 | 29,040 | 7,040 | 36,080 | 91,158 | - | 91,158 | 678,401 | |
| Utah----- | - | - | - | 6,464 | - | 6,464 | 20,000 | 26,164 | - | - | - | 51,715 | - | 51,715 | 678,401 | |
| Wyoming----- | - | - | - | 28,200 | 3,904 | 32,104 | 619,174 | - | 651,278 | 604,035 | 1,255,313 | 225,600 | 31,232 | 256,832 | 4,987,860 | - |
| Total----- | | | | | | | | | | | | | | | 5,246,582 | 4,836,649 |
| | | | | | | | | | | | | | | | 10,079,341 | |

TABLE B-16. - Injury experience and worktime data by general work location at potash mines and mills in the United States, by State, 1971

TABLE B-16. - Injury experience and worktime data by general work location at potash mines and mills in the United States, by State, 1971 - Continued

TABLE B-17. - Injury experience and worktime data by general work location at salt mines and mills in the United States, by State, 1971

TABLE B-17. - Injury experience and worktime data by general work location at salt mines and mills in the United States, by State, 1971 - Continued

TABLE B-17. - Injury experience and worktime data by general work location at salt mines and mills in the United States, by State, 1971 - Continued

| State | Active operations | | Average men working daily | | | | | | | | | | Average days active | | |
|-----------------------|-------------------|---------|---------------------------|----------------------|--------|-------------------------|---------|-------------|----------------------|---------|-------------------------|-------------------|----------------------|-------------|-----------|
| | | | Underground mines | | | Open pit mines | | | Other surface mining | | Total mining activities | | | | |
| | Mines | Mills | Underground | Surface | Total | 20 | 17 | 37 | 22 | 39 | 262 | 234 | 248 | Mills | |
| California----- | 5 | 4 | 42 | 7 | 52 | 20 | 17 | 37 | 22 | 39 | - | - | 234 | 248 | |
| Kansas----- | 4 | 3 | 329 | 122 | 451 | - | 10 | 62 | 47 | 109 | 287 | 287 | 36 ^c | 279 | |
| Louisiana----- | 13 | 5 | 110 | 59 | 169 | - | 9 | 169 | 460 | 323 | 210 | 268 | 354 | 283 | |
| Michigan----- | 1 | 1 | - | - | - | 4 | - | - | - | - | - | - | - | 260 | |
| Nevada----- | 1 | 1 | 3 | 3 | 274 | 152 | 426 | 5 | 74 | 25 | 426 | 451 | 30 | 30 | |
| New Mexico----- | 3 | 3 | 299 | 74 | 373 | - | - | - | 34 | 407 | 167 | 324 | 170 | 328 | |
| Ohio----- | 2 | 1 | 34 | 15 | 49 | - | - | - | 62 | 167 | 29 | 29 | - | 238 | |
| Texas----- | 3 | 2 | 4 | 1 | 5 | 7 | 12 | 12 | 6 | 18 | 120 | 157 | 248 | 262 | |
| Utah----- | 3 | 3 | - | - | - | - | - | - | - | - | - | - | 142 | 257 | |
| Total or average----- | 36 | 25 | 1,092 | 433 | 1,525 | 31 | 54 | 1,610 | 739 | 2,349 | 282 | 207 | 276 | 281 | |
| Man-hours worked | | | | | | | | | | | | | | | |
| Underground mines | | | | | | | | | | | | | | | |
| Underground | Surface | Total | Open pit mines | Other surface mining | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Underground mines | Other surface mining | Grand total | |
| Underground | Surface | Total | Open pit mines | Other surface mining | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Underground | Other surface mining | Mills | |
| California----- | 2,619 | - | 13,636 | 9,164 | 5,731 | 14,895 | - | 20,952 | 109,088 | - | - | 41,464 | 31,848 | 45,848 | |
| Kansas----- | 11,017 | 3,188 | 3,650 | 17,286 | 12,572 | 29,858 | 73,830 | 284,556 | 1,020,386 | 284,556 | 29,200 | 138,288 | 100,576 | 119,160 | |
| Louisiana----- | 9,803 | 129,372 | 15,045 | 122,560 | 91,440 | 224,000 | 55,955 | 250,086 | 129,074 | 379,160 | - | 25,500 | 1,045,886 | 731,519 | 238,864 |
| Michigan----- | 30,250 | - | - | 45,295 | 45,295 | - | 120 | - | - | - | - | 379,160 | 85,280 | 1,777,405 | 464,440 |
| Nevada----- | - | - | - | - | - | - | - | - | - | - | - | 960 | - | 960 | 960 |
| New Mexico----- | 69,291 | 38,737 | 108,028 | 850 | 24,252 | 25,102 | - | - | - | - | - | 6,798 | 6,798 | 194,020 | 200,818 |
| Ohio----- | 94,889 | 121,033 | 121,144 | 108,128 | 5,953 | 113,981 | 563,872 | 305,132 | 869,604 | - | - | 869,604 | 47,438 | 917,442 | 917,442 |
| Texas----- | 8,760 | 3,852 | 12,612 | 3,226 | 15,838 | 42,969 | 58,807 | 70,080 | 209,152 | 968,262 | - | 968,262 | 1,330 | 1,039,612 | 1,039,612 |
| Utah----- | 4,800 | 120 | 600 | 1,100 | - | 1,700 | 1,500 | 3,200 | 3,840 | 100,856 | 960 | 25,805 | 126,701 | 343,751 | 470,452 |
| Total----- | 308,490 | 112,086 | 430,576 | 6,403 | 14,895 | 451,874 | 203,996 | 655,870 | 2,470,954 | 981,242 | 3,452,196 | 51,224 | 119,151 | 3,622,571 | 1,631,782 |
| Total----- | 308,490 | 112,086 | 430,576 | 6,403 | 14,895 | 451,874 | 203,996 | 655,870 | 2,470,954 | 981,242 | 3,452,196 | 51,224 | 119,151 | 3,622,571 | 1,631,782 |

TABLE B-18. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1971

| State | Fatal | | | | Nonfatal | | | |
|------------------|-------------------|---------|---------|----------------|-------------------------|-------------------------|-------------|-------------------|
| | Underground mines | | Surface | | Total mining activities | Mills | Grand total | Underground mines |
| | Underground | Surface | Total | Open pit mines | Other surface mining | Total mining activities | Mills | Underground |
| Injuries | | | | | | | | |
| Alabama-- | - | - | - | - | - | - | - | - |
| Alaska-- | - | - | - | - | - | - | - | - |
| Arizona-- | 1 | 1 | 2 | 1 | 1 | 2 | - | 2 |
| Arkansas-- | - | - | - | 18 | 1 | 19 | 3 | 6 |
| California-- | - | - | - | 5 | 1 | 6 | 27 | 8 |
| Colorado-- | - | - | - | 4 | 4 | 2 | 33 | 27 |
| Connecticut-- | - | - | - | - | - | 1 | 6 | 159 |
| Florida-- | - | - | - | - | - | 1 | 1 | 13 |
| Georgia-- | - | - | - | 1 | 1 | 2 | 2 | 1 |
| Hawaii-- | - | - | - | - | - | 2 | 2 | 2 |
| Idaho-- | - | - | - | - | - | 2 | 1 | 3 |
| Illinois-- | 7 | 7 | 14 | 29 | 2 | 31 | 4 | 4 |
| Indiana-- | - | - | - | - | - | - | - | 40 |
| Iowa-- | - | - | - | - | - | - | - | - |
| Kansas-- | - | - | - | - | - | - | - | - |
| Kentucky-- | - | - | - | 23 | 1 | 24 | 1 | 25 |
| Louisiana-- | - | - | - | - | - | - | - | - |
| Maryland-- | - | - | - | - | - | - | - | - |
| Massachusetts-- | - | - | - | - | - | - | - | - |
| Michigan-- | - | - | - | - | - | 10 | 10 | - |
| Minnesota-- | - | - | - | - | - | 5 | 5 | - |
| Missouri-- | - | - | - | - | - | 12 | 12 | 26 |
| Montana-- | - | - | - | 1 | 1 | 7 | 8 | 8 |
| Nebraska-- | - | - | - | 2 | 2 | 6 | 8 | 39 |
| Nevada-- | - | - | - | - | - | - | - | - |
| New Hampshire-- | - | - | - | - | - | 1 | 1 | 1 |
| New Jersey-- | - | - | - | - | - | 1 | 1 | 2 |
| New Mexico-- | - | - | - | - | - | 2 | 2 | 5 |
| Pennsylvania-- | - | - | - | - | - | 1 | 1 | 1 |
| New York-- | - | - | - | 5 | 3 | 8 | 17 | 5 |
| North Carolina-- | - | - | - | - | - | 7 | 7 | 25 |
| North Dakota-- | - | - | - | - | - | - | - | 30 |
| Tennessee-- | - | - | - | - | - | - | - | - |
| Texas-- | - | - | - | - | - | - | - | - |
| Ohio-- | - | - | - | - | - | - | - | - |
| Oklahoma-- | - | - | - | - | - | 2 | 2 | - |
| Oregon-- | - | - | - | - | - | 1 | 1 | - |
| Pennsylvania-- | - | - | - | - | - | 1 | 1 | - |
| South Carolina-- | - | - | - | - | - | 2 | 2 | 3 |
| South Dakota-- | - | - | - | - | - | 1 | 1 | 5 |
| Tennessee-- | - | - | - | - | - | 1 | 1 | - |
| Texas-- | - | - | - | - | - | 4 | 4 | 2 |
| Utah-- | - | - | - | 20 | 1 | 21 | 21 | 15 |
| Vermont-- | - | - | - | 12 | 1 | 13 | 9 | 24 |
| Virginia-- | - | - | - | - | - | 2 | 2 | 9 |
| Washington-- | - | - | - | - | - | 1 | 1 | 3 |
| Wisconsin-- | - | - | - | - | - | 2 | 2 | 3 |
| Wyoming-- | - | - | - | - | - | 1 | 1 | 5 |
| Total----- | 8 | 2 | - | 10 | 123 | 5 | 128 | 335 |
| | | | | | | 103 | - | 566 |

TABLE B-18. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1971 - Continued

TABLE B-18. - Injury experience and worktime data by general work location at miscellaneous nonmetallic mines and mills in the United States, by States, 1971 - Continued

TABLE B-18. - Injury experience and work time data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1971 - Continued

TABLE B-18. - Injury experience and worktime data by general work location at miscellaneous nonmetal mines and mills in the United States, by State, 1971 - Continued

| State | Man-days worked | | | | | | Man-hours worked | | | | | | |
|---------------------|-------------------|---------------|----------------|----------------|---------------------------------|-------------------------|-------------------|------------------|------------------|-------------------|---------------------------------|-------------------------|-------------------|
| | Underground mines | | | Surface | | | Underground mines | | | Underground mines | | | |
| | Underground | Surface | Total | Open pit mines | Other surface mining activities | Total mining activities | Underground | Surface | Total | Open pit mines | Other surface mining activities | Total mining activities | |
| Alabama----- | - | - | - | 3,565 | - | 3,565 | 12,509 | 16,074 | - | - | 31,491 | 100,076 | |
| Alaska----- | 4,088 | 1,200 | 5,288 | 13,822 | 2,600 | 19,110 | 7,539 | 32,704 | 9,600 | 42,304 | 153,370 | 131,567 | |
| Arizona----- | 17,214 | 3,656 | 20,870 | 3,604 | 24,474 | 50,178 | 139,440 | 29,600 | 169,040 | 28,835 | 197,575 | 27,040 | |
| Arkansas----- | 12,502 | 3,910 | 16,412 | 108,867 | 1,429 | 126,708 | 464,178 | 500,886 | 100,025 | 31,271 | 131,236 | 217,190 | |
| California----- | 24,580 | 8,294 | 32,874 | 9,182 | 42,056 | 22,446 | 64,521 | 196,639 | 66,349 | 262,988 | 69,362 | 312,350 | |
| Colorado----- | - | - | - | 2,504 | 10,642 | 13,146 | - | - | - | 20,032 | 85,136 | 105,167 | |
| Connecticut----- | - | - | - | 10,464 | 10,464 | 20,928 | - | - | - | - | - | - | |
| Florida----- | 4,000 | 800 | 4,800 | 14,573 | 19,313 | 59,506 | 78,879 | 40,000 | 8,000 | 48,000 | 115,817 | 81,836 | |
| Georgia----- | - | - | - | 5,514 | 5,514 | 2,793 | 8,307 | - | - | 43,597 | 163,817 | 670,032 | |
| Hawaii----- | 320 | - | 320 | 2,489 | 6,175 | 8,664 | 2,560 | - | - | 22,348 | 65,945 | - | |
| Idaho----- | 49,517 | 4,721 | 54,238 | 5,462 | 59,700 | 12,610 | 396,148 | 37,768 | 433,916 | 46,993 | 19,913 | 50,198 | |
| Illinois----- | - | - | - | 5,008 | 5,008 | 230 | 5,238 | - | - | 480,909 | 432,283 | 904,192 | |
| Indiana----- | - | - | - | 8,427 | 8,427 | 8,427 | 8,427 | - | - | 39,920 | 36,945 | 41,160 | |
| Iowa----- | - | - | - | 698 | 698 | 2,837 | 3,535 | - | - | 68,645 | 68,645 | 68,645 | |
| Kansas----- | 24,799 | 1,736 | 26,535 | 349 | 26,884 | 6,785 | 33,669 | 198,370 | 13,888 | 212,258 | 2,790 | 23,759 | |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 215,068 | 54,280 | 269,326 | |
| Louisiana----- | - | - | - | 30,120 | 30,120 | 30,120 | 30,120 | - | - | 240,958 | 240,958 | 240,958 | |
| Maine----- | 218 | - | 218 | 4,697 | 4,915 | 4,915 | 4,915 | 1,747 | 1,747 | - | 39,325 | 39,325 | |
| Maryland----- | - | - | - | 1,462 | 1,462 | 520 | 1,982 | - | - | 11,396 | 4,160 | 15,556 | |
| Massachusetts----- | - | - | - | 150 | 150 | 150 | - | - | - | 1,300 | - | - | |
| Michigan----- | - | - | - | 39,139 | 39,139 | 39,139 | - | - | - | 339,358 | - | 339,358 | |
| Minnesota----- | - | - | - | 5,613 | 5,613 | 990 | 6,603 | - | - | 42,306 | 42,306 | 7,920 | |
| Missouri----- | - | - | - | 51,917 | 51,917 | 53,489 | 105,406 | - | - | 419,648 | 419,648 | 50,226 | |
| Montana----- | 680 | 170 | 850 | 23,011 | 23,861 | 51,837 | 75,698 | 5,440 | 1,360 | 6,800 | 184,421 | 191,221 | |
| Nebraska----- | - | - | - | 20 | 20 | 4,540 | 4,420 | - | - | 1,20 | - | 1,20 | |
| Nevada----- | 2,400 | 500 | 2,900 | 26,448 | 33,838 | 97,487 | 131,345 | 19,030 | 4,000 | 23,030 | 214,920 | 36,323 | |
| New Hampshire----- | - | - | - | 150 | 150 | - | - | - | - | 160 | - | - | |
| New Jersey----- | - | - | - | 5,133 | 5,133 | 5,133 | 20 | 2,826 | 2,846 | - | 41,069 | 1,200 | - |
| New Mexico----- | 490 | - | 490 | 7,702 | 8,192 | 8,761 | 29,595 | 6,133 | 9,920 | 3,920 | 60,557 | 42,477 | 6,800 |
| New York----- | 17,199 | 3,635 | 20,834 | 6,173 | 46,631 | 77,011 | 106,606 | 137,592 | 29,080 | 166,672 | 69,490 | 235,909 | 849,828 |
| North Carolina----- | 5,860 | 313 | - | - | - | 52,804 | 153,876 | 206,680 | 46,880 | 2,504 | 49,384 | 424,899 | 616,094 |
| North Dakota----- | - | - | - | 41 | 41 | - | - | - | - | 120 | - | 120 | |
| Ohio----- | - | - | - | 2,146 | 2,146 | 2,146 | 2,146 | - | - | 16,010 | 324 | 324 | |
| Oklahoma----- | - | - | - | 8,113 | 8,113 | 2,930 | 10,163 | - | - | 64,34 | 16,010 | - | |
| Oregon----- | - | - | - | 238 | 100 | 13,388 | - | - | - | 1,306 | 1,306 | 1,306 | |
| Pennsylvania----- | - | - | - | 12,487 | 12,487 | 10,409 | 26,246 | 36,655 | - | 97,837 | 7,219 | 105,056 | |
| South Carolina----- | - | - | - | 4,737 | 4,737 | 1,841 | 6,578 | - | - | 92,000 | 210,813 | 302,813 | |
| South Dakota----- | - | - | - | 5,841 | 5,841 | 2,132 | 7,973 | - | - | 35,765 | 14,733 | 50,498 | |
| Tennessee----- | - | - | - | 13,848 | 13,848 | 30,945 | 44,793 | - | - | 48,000 | 48,000 | 18,928 | |
| Texas----- | - | - | - | 50,438 | 50,438 | 9,917 | 60,355 | 299,989 | 80,774 | 380,743 | 111,504 | 256,358 | |
| Utah----- | 37,464 | 10,098 | 47,562 | 31,037 | 31,037 | 60,496 | 91,393 | 65,698 | 20,892 | 122,530 | 493,273 | 80,557 | |
| Vermont----- | 10,369 | 2,569 | 13,905 | 17,792 | 18,093 | 67,704 | 85,977 | 11,721 | - | 143,658 | 146,999 | 492,417 | |
| Virginia----- | - | - | - | 3,382 | 3,382 | 8,339 | 1,620 | - | - | 26,750 | 66,711 | 692,356 | |
| Washington----- | - | - | - | 1,233,091 | 6,566 | 129,657 | 148,955 | 278,612 | 821,239 | 163,490 | 12,960 | 12,960 | |
| Wisconsin----- | 102,655 | 20,436 | 126,091 | 6,566 | - | - | - | - | - | 1,043,579 | 1,194,081 | 12,960 | |
| Wyoming----- | - | - | - | - | - | - | - | - | - | - | - | 2,237,660 | |
| Total----- | 314,722 | 62,036 | 376,760 | 535,671 | 6,119 | 908,550 | 1,535,390 | 2,443,880 | 2,527,401 | 4,98,466 | 4,252,488 | 48,955 | 7,327,330 |
| | | | | | | | | | | | | | 19,692,924 |

TABLE B-19. - Injury experience and worktime data by general work location at nonfatal mines and mills in the United States, by State, 1971

| State | Fatal | | | | | | Nonfatal | | | | | |
|---------------------|-------------------|---------|-------|-------------------------|-------|-------------|-------------------|---------|-------|----------------------|-------------------------|-------|
| | Underground mines | | | Open pit mines | | | Underground mines | | | Open pit mines | | |
| | Underground | Surface | Total | Total mining activities | Mills | Grand total | Underground | Surface | Total | Other surface mining | Total mining activities | Mills |
| Injuries | | | | | | | | | | | | |
| Alabama----- | - | - | - | - | - | 1 | - | - | - | 13 | - | 20 |
| Alaska----- | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 18 | 33 |
| Arizona----- | - | - | - | - | - | 18 | 1 | 19 | 2 | 21 | 51 | 21 |
| Arkansas----- | - | - | - | - | - | 5 | 1 | 6 | 40 | 1 | 47 | 72 |
| California----- | - | - | - | - | - | 4 | - | - | 3 | - | 18 | 243 |
| Colorado----- | - | - | - | - | - | - | - | - | 7 | 7 | 11 | 18 |
| Connecticut----- | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 4 |
| Delaware----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Florida----- | - | - | - | - | - | 1 | 1 | 1 | 29 | 29 | 49 | 78 |
| Georgia----- | - | - | - | - | - | 1 | 1 | 1 | 33 | - | 34 | 251 |
| Hawaii----- | - | - | - | - | - | 1 | - | - | 2 | 2 | 2 | 2 |
| Idaho----- | 1 | 1 | 2 | 1 | 1 | - | - | - | 3 | 3 | 3 | 8 |
| Illinois----- | 7 | 7 | 14 | 7 | 7 | 29 | 1 | 1 | 3 | 32 | 59 | 91 |
| Indiana----- | - | - | - | - | - | - | - | - | 4 | 4 | 13 | 17 |
| Iowa----- | - | - | - | - | - | 2 | 1 | 3 | 3 | 3 | 48 | 51 |
| Kansas----- | - | - | - | - | - | 23 | 1 | 24 | 12 | 3 | 3 | 36 |
| Kentucky----- | - | - | - | - | - | 41 | 6 | 47 | 4 | 36 | 18 | 54 |
| Louisiana----- | - | - | - | - | - | - | - | - | 2 | 2 | 51 | 87 |
| Maine----- | - | - | - | - | - | - | - | - | - | - | 6 | 8 |
| Maryland----- | - | - | - | - | - | - | - | - | - | - | 6 | 6 |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | - | 16 | 16 |
| Michigan----- | - | - | - | - | - | 6 | 5 | 11 | 15 | 26 | 52 | 52 |
| Minnesota----- | - | - | - | - | - | - | - | - | - | - | 11 | 11 |
| Mississippi----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Missouri----- | 1 | 1 | 2 | 1 | 1 | - | - | - | 18 | 18 | 25 | 43 |
| Montana----- | - | - | - | - | - | 10 | 10 | 7 | - | 17 | 17 | 38 |
| Nebraska----- | - | - | - | - | - | 2 | - | - | - | - | - | - |
| Nevada----- | - | - | - | - | - | 38 | 4 | 42 | 5 | 8 | 34 | 42 |
| New Hampshire----- | - | - | - | - | - | - | - | - | 7 | 7 | 32 | 39 |
| New Jersey----- | - | - | - | - | - | - | - | - | 1 | 1 | 18 | 19 |
| New Mexico----- | 3 | 3 | 6 | 4 | 4 | 109 | 33 | 142 | - | 142 | 24 | 166 |
| New York----- | - | - | - | - | - | 31 | 7 | 38 | 3 | 41 | 38 | 79 |
| North Carolina----- | - | - | - | - | - | 2 | - | - | 18 | 18 | 94 | 112 |
| North Dakota----- | - | - | - | - | - | 1 | - | - | - | - | - | - |
| Ohio----- | - | - | - | - | - | 38 | 4 | 42 | 5 | 47 | 62 | 109 |
| Oklahoma----- | - | - | - | - | - | - | - | - | 7 | 7 | 32 | 39 |
| Oregon----- | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 |
| Pennsylvania----- | - | - | - | - | - | 13 | - | 13 | 8 | - | 21 | 21 |
| South Carolina----- | - | - | - | - | - | - | - | - | 9 | 9 | 69 | 78 |
| South Dakota----- | - | - | - | - | - | 1 | - | - | 2 | 2 | 9 | 11 |
| Tennessee----- | - | - | - | - | - | 1 | - | - | 11 | 11 | 22 | 33 |
| Texas----- | - | - | - | - | - | 2 | - | 4 | 13 | 17 | 122 | 139 |
| Utah----- | - | - | - | - | - | 1 | 29 | 1 | 30 | 1 | 31 | 3 |
| Vermont----- | - | - | - | - | - | 12 | 1 | 13 | 1 | 15 | 15 | 24 |
| Virginia----- | - | - | - | - | - | 1 | - | 1 | 3 | 4 | 16 | 20 |
| Washington----- | - | - | - | - | - | 1 | - | 1 | - | 1 | 3 | 3 |
| West Virginia----- | - | - | - | - | - | 1 | - | 1 | - | 1 | 3 | 4 |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | - | - | - |
| Wyoming----- | - | - | - | - | - | 2 | - | 2 | 11 | 13 | 23 | 36 |
| Total----- | 12 | - | 12 | 3 | - | 15 | 9 | 24 | 381 | 63 | 444 | 1,567 |
| | | | | | | | | | 1 | 741 | | 2,308 |

TABLE B-19. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1971 - Continued

TABLE B-19. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1971 - Continued

TABLE B-19. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1971 - Continued

| State | Active operations | | | Average men working daily | | | | | | Average days active | | | | | | |
|-----------------------|--------------------|---------------|-------|---------------------------|---------|-------|----------------|-------|---------------|-------------------------|--------|-------------|-------------------|----------------|----------------------|-------------------------|
| | Under-ground mines | | Mills | Under-ground mines | | | Open pit mines | | Other surface | Total mining activities | Mills | Grand total | Underground mines | Open pit mines | Other surface mining | Total mining activities |
| | Under-ground mines | Surface mines | Mills | Under-ground | Surface | Total | | | | | | | | | | Mills |
| Alabama----- | - | 52 | 27 | - | - | - | - | 221 | - | 221 | 535 | 756 | - | 218 | - | |
| Alaska----- | - | 1 | 1 | - | - | - | - | 10 | 10 | 10 | 3 | 13 | - | 260 | 270 | |
| Arizona----- | 4 | 49 | 14 | 14 | 4 | 18 | 15 | 89 | 125 | 125 | 129 | 284 | 294 | 167 | 260 | |
| Arkansas----- | 2 | 36 | 17 | 74 | 15 | 89 | 125 | - | - | 214 | 737 | 951 | 234 | 192 | 182 | |
| California----- | 12 | 166 | 73 | 56 | 17 | 73 | 22 | 673 | 29 | 768 | 1,980 | 2,748 | 231 | 218 | 210 | |
| Colorado----- | 12 | 96 | 19 | 100 | 29 | 129 | - | - | 214 | 363 | 207 | 550 | 276 | 98 | 246 | |
| Connecticut----- | - | 6 | 2 | - | - | - | - | 17 | 17 | 17 | 56 | 73 | - | 165 | - | |
| Delaware----- | - | 1 | - | - | - | - | - | 1 | 1 | 1 | 1 | 2 | - | 247 | 247 | |
| Florida----- | - | 54 | 31 | - | - | - | - | 1,697 | - | 1,697 | 1,826 | 3,523 | - | 313 | - | |
| Georgia----- | 5 | 73 | 41 | 19 | 4 | 23 | 23 | - | 711 | - | 734 | 3,143 | 3,877 | 209 | 300 | 327 |
| Hawaii----- | - | 19 | 5 | - | - | - | - | 61 | - | 61 | 18 | 79 | - | 93 | - | |
| Idaho----- | 1 | 24 | 9 | 4 | - | 4 | - | - | 363 | - | 367 | 89 | 80 | 223 | 221 | |
| Illinois----- | 15 | 35 | 30 | 179 | 21 | 206 | 116 | - | 316 | 723 | 1,039 | 271 | 187 | - | 260 | |
| Indiana----- | 3 | 33 | 15 | 36 | 8 | 44 | 81 | - | 116 | 125 | 471 | 596 | 255 | 208 | - | |
| Iowa----- | 1 | 23 | 21 | 14 | 3 | 17 | 156 | - | 173 | 299 | 472 | 285 | 246 | - | 250 | |
| Kansas----- | 5 | 27 | 15 | 57 | 18 | 75 | 77 | 10 | 162 | 393 | 555 | 263 | 125 | 125 | 365 | |
| Kentucky----- | 4 | 45 | 11 | 91 | 7 | 98 | 156 | - | 254 | 275 | 529 | 271 | 161 | 203 | 266 | |
| Louisiana----- | 5 | 21 | 19 | 329 | 122 | 122 | 83 | 9 | 543 | 647 | 1,190 | 287 | 301 | 354 | 290 | |
| Maine----- | 1 | 21 | 10 | 1 | 2 | - | 2 | - | 53 | - | 55 | 19 | 109 | 158 | - | |
| Maryland----- | - | 15 | 10 | - | - | - | - | 37 | 37 | 37 | 87 | 124 | - | 202 | - | |
| Massachusetts----- | - | 4 | 2 | - | - | - | - | 9 | 9 | 9 | 64 | 73 | - | 201 | - | |
| Michigan----- | 3 | 32 | 13 | 131 | 64 | 195 | 345 | - | 540 | 368 | 908 | 267 | - | 210 | - | |
| Minnesota----- | - | 14 | 7 | - | - | - | - | 73 | - | 73 | 1,32 | 205 | - | 100 | - | |
| Mississippi----- | - | 34 | 23 | - | - | - | - | 158 | - | 158 | 372 | 530 | - | 183 | - | |
| Missouri----- | - | 75 | 27 | - | - | - | - | 368 | - | 368 | 341 | 709 | - | 224 | - | |
| Montana----- | 3 | 19 | 13 | 106 | 13 | 119 | 116 | - | 219 | 454 | 248 | 239 | - | 244 | - | |
| Nebraska----- | - | 3 | 7 | 4 | 5 | 5 | - | 9 | 9 | 6 | 15 | 192 | - | 192 | - | |
| Nevada----- | 6 | 47 | 20 | 21 | 2 | 23 | 175 | 12 | 210 | 554 | 764 | 164 | 197 | 365 | 204 | |
| New Hampshire----- | - | 4 | 3 | - | - | - | - | 4 | 4 | 4 | 32 | 36 | - | 136 | - | |
| Minnesota----- | - | 13 | 9 | - | - | - | - | 54 | 1 | 55 | 158 | 213 | - | 174 | - | |
| New Mexico----- | 12 | 29 | 30 | 903 | - | 329 | 1,232 | 70 | 5 | 1,307 | 801 | 2,108 | 355 | 150 | 100 | |
| New York----- | 10 | 25 | 421 | 201 | 622 | 1,622 | 128 | - | 750 | 619 | 1,369 | 260 | 188 | 183 | 264 | |
| North Dakota----- | 4 | 83 | 54 | 26 | 1 | 27 | 433 | - | 460 | 1,506 | 1,966 | 229 | 255 | - | 224 | |
| Ohio----- | 3 | 3 | 1 | - | - | - | - | 5 | 5 | 5 | 11 | 16 | - | 25 | - | |
| Oklahoma----- | 6 | 110 | 48 | 333 | 82 | 415 | 287 | - | 702 | 1,260 | 1,962 | 320 | 188 | - | 266 | |
| Oregon----- | - | 40 | 14 | - | - | - | - | 135 | 135 | 135 | 346 | 481 | - | 256 | - | |
| Pennsylvania----- | 1 | 18 | 9 | 3 | - | - | - | 37 | 37 | 40 | 441 | 81 | - | 149 | - | |
| South Carolina----- | - | 56 | 28 | - | - | - | - | 71 | - | 344 | 829 | 1,170 | 256 | 222 | - | |
| North Carolina----- | - | 53 | 4 | - | - | - | - | 189 | - | 189 | 818 | 1,007 | - | 223 | - | |
| Tennessee----- | - | 51 | 28 | - | - | - | - | 84 | - | 84 | 72 | 156 | - | 253 | - | |
| Wyoming----- | - | 4 | 2 | - | - | - | - | 284 | - | 284 | 529 | 813 | - | 260 | - | |
| Texas----- | 2 | 111 | 66 | 34 | 15 | 49 | 319 | 13 | 381 | 1,601 | 1,982 | 257 | 244 | - | 267 | |
| Utah----- | 28 | 36 | 15 | 232 | 58 | 290 | 148 | 148 | 438 | 146 | 584 | 211 | 190 | - | 204 | |
| Vermont----- | 3 | 3 | 5 | 39 | 9 | 48 | 73 | - | 121 | 215 | 244 | - | 244 | - | 226 | |
| Virginia----- | 1 | 32 | 22 | 54 | 13 | 67 | 112 | - | 179 | 558 | 737 | 263 | 235 | - | 279 | |
| Washington----- | - | 30 | 6 | - | - | - | - | 64 | - | 64 | 115 | 161 | - | 100 | - | |
| West Virginia----- | 2 | 4 | 5 | 30 | 7 | 37 | 9 | - | 18 | 18 | 12 | 30 | - | 120 | - | |
| Wisconsin----- | - | 4 | 2 | - | - | - | - | 214 | - | 611 | 924 | 1,335 | 310 | 212 | - | |
| Total or average----- | 163 | 1,837 | 912 | 3,698 | 1,120 | 4,818 | 9,179 | 72 | 14,069 | 24,320 | 38,389 | 293 | 228 | 292 | 285 | |

TABLE B-19. - Injury experience and worktime data by general work location at nonmetal mines and mills in the United States, by State, 1971 - Continued

| State | Man-days worked | | | | | | | | | | Man-hours worked | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------------------|---------|---------|----------------|-----------|-----------|----------------------|---------|---------|-------------------------|------------------|-----------|-------------------|-----------|-----------|----------------|-----------|-----------|----------------------|-----------|-------------------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Underground mines | | | Open pit mines | | | Other surface mining | | | Total mining activities | | | Underground mines | | | Open pit mines | | | Other surface mining | | Total mining activities | | Mills | | Grand total | | | | | | | | | | |
| | Underground | Surface | Total | Mills | Mills | Total | Mills | Mills | Total | Mills | Total | Mills | Total | Mills | Total | Mills | Total | Mills | Total | Mills | Total | Mills | Total | Mills | Total | | | | | | | | | | |
| Alabama----- | - | - | - | 48,074 | 14,677 | 192,751 | 3,380 | 3,380 | - | - | - | 404,526 | 1,175,195 | - | 20,800 | 20,800 | - | 6,240 | 6,240 | 1,579,721 | 1,579,721 | - | - | | | | | | | | | | | | |
| Alaska----- | 4,088 | - | 5,288 | 2,600 | - | 28,165 | 32,479 | 60,644 | 32,704 | 9,600 | 42,304 | 183,620 | - | 225,924 | 263,642 | - | 1,508,227 | 1,508,227 | 489,566 | 489,566 | - | - | | | | | | | | | | | | | |
| Arizona----- | 17,214 | 3,656 | 20,870 | 23,975 | - | 44,845 | 18,822 | 233,067 | 139,440 | 29,600 | 169,060 | 196,216 | - | 365,356 | 1,508,227 | 1,874,083 | 1,874,083 | 4,847,334 | 4,847,334 | 6,214,404 | 6,214,404 | - | - | | | | | | | | | | | | |
| Arkansas----- | 12,985 | 3,910 | 16,895 | 14,684 | 5,410 | 603,567 | 772,696 | 103,889 | 31,271 | 135,150 | 1,188,230 | 43,280 | 1,367,101 | 4,79,979 | 4,79,979 | 928,347 | 928,347 | 1,156,378 | 1,156,378 | 1,39,401 | 1,39,401 | - | - | | | | | | | | | | | | |
| California----- | 21,289 | 8,234 | 30,583 | 20,908 | - | 56,491 | 59,397 | 116,488 | 218,313 | 66,349 | 284,662 | 163,706 | - | 35,125 | 104,276 | 135,125 | - | 2,504 | 2,504 | 5,008 | 5,008 | - | - | | | | | | | | | | | | |
| Colorado----- | - | - | - | 4,201 | - | - | 13,803 | 18,033 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Connecticut----- | - | - | - | 313 | - | 313 | 313 | 626 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Delaware----- | - | - | - | 509,303 | 1,105,535 | 1,188,518 | 40,000 | 40,000 | - | 48,000 | 48,000 | 4,077,643 | 4,783,960 | - | 1,531,880 | 7,939,249 | 9,571,129 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Florida----- | - | 4,000 | 800 | 4,800 | 195,370 | 988,348 | 1,188,518 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Georgia----- | - | - | - | 5,644 | 5,644 | 5,644 | 3,833 | 3,833 | 9,477 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | |
| Hawaii----- | - | 320 | 840 | 840 | 197,920 | 99,110 | 2,560 | - | - | - | - | 2,560 | 665,035 | - | 667,585 | 1,65,442 | 813,037 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Idaho----- | 49,517 | 5,238 | 56,755 | 21,678 | - | 75,916 | 197,933 | 396,168 | 37,768 | 433,916 | 177,483 | 61,389 | 1,606,182 | - | 2,215,581 | 1,606,182 | 1,606,182 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Illinois----- | 9,066 | 2,161 | 11,225 | 16,881 | - | 28,106 | 16,613 | 174,239 | 75,350 | 17,286 | 89,636 | 125,211 | 224,835 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | 1,168,578 | | | | | | | | | |
| Indiana----- | - | - | - | 8,879 | 4,847 | 36,336 | 14,320 | 43,203 | 75,479 | 118,682 | 31,741 | 7,032 | 308,773 | - | 347,338 | 606,433 | 954,177 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Iowa----- | 15,002 | 4,733 | 19,755 | 19,755 | - | 3,650 | 3,650 | 105,014 | 138,988 | 76,201 | 1,944,916 | 158,022 | 29,200 | 823,996 | - | 1,081,419 | 1,081,419 | 1,081,419 | - | - | - | - | - | - | - | - | | | | | | | | | |
| Kansas----- | - | 24,799 | 1,736 | 26,535 | 25,111 | 51,646 | 73,270 | 124,916 | 198,370 | 15,258 | 201,889 | 212,258 | - | 4,14,147 | 587,408 | 1,001,555 | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| Kentucky----- | - | 35,569 | 93,803 | 35,569 | 129,370 | 25,016 | 1,188 | 187,576 | 339,211 | 73,870 | 284,556 | 1,020,366 | 25,500 | 1,246,524 | 4,53,074 | 2,699,587 | 37,300 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | 30,668 | | | | | | |
| Louisiana----- | - | 218 | 8,352 | - | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | 8,352 | | | | | | | | | |
| Maine----- | - | - | - | 7,464 | - | 7,464 | 7,464 | 21,945 | 29,409 | 1,747 | - | 1,747 | 66,818 | - | 60,310 | 60,310 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | 174,561 | | | | | | |
| Maryland----- | - | - | - | 1,812 | 1,812 | 1,812 | 1,812 | 17,892 | 19,704 | - | - | - | 15,171 | - | 15,171 | 15,171 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | 143,136 | | | | | | |
| Massachusetts----- | - | - | - | 124,523 | 94,417 | 124,523 | 94,417 | 223,940 | 292,847 | 140,508 | 433,355 | 605,740 | - | 1,059,095 | 795,501 | 1,059,095 | 795,501 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | 1,854,566 | | | | | |
| Michigan----- | 16,474 | 52,071 | 52,071 | 7,306 | 7,306 | 7,306 | 7,306 | 34,526 | 41,322 | - | - | - | 55,740 | - | 55,740 | 55,740 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | 227,218 | | | | | | |
| Minnesota----- | - | - | - | 28,876 | 96,301 | 127,177 | - | - | - | - | - | - | 234,600 | - | 234,600 | 234,600 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | 793,000 | | | | | | |
| Mississippi----- | - | - | - | 82,451 | 82,451 | 82,451 | 82,451 | 171,541 | 210,743 | 25,552 | 236,295 | 222,335 | - | 1,748,530 | 531,722 | 1,748,530 | 531,722 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | 2,699,400 | | | | | |
| Missouri----- | 26,343 | 29,537 | 29,537 | 27,750 | 64,433 | 57,287 | 1,727 | 1,727 | 1,727 | 1,727 | 1,727 | 1,727 | 1,727 | 1,727 | 1,727 | 1,727 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | 13,338 | | | | | | |
| Montana----- | 3,194 | - | - | 3,194 | 3,194 | 3,194 | 3,194 | 123,720 | 123,720 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | 210,743 | | | | | | | | |
| Nebraska----- | 3,271 | 500 | 3,271 | 3,271 | 5,450 | 14,783 | 14,783 | 190,661 | 26,829 | 4,000 | 30,829 | 4,000 | 30,829 | 30,829 | 30,829 | 30,829 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | 36,323 | | | | | | |
| Nevada----- | - | - | - | 545 | 545 | 545 | 9,010 | 9,010 | 9,010 | 9,010 | 9,010 | 9,010 | 9,010 | 9,010 | 9,010 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | 4,360 | | | | | | |
| New Hampshire----- | - | - | - | 9,581 | 35,664 | 45,245 | 45,245 | 216,551 | 216,196 | 2,557,246 | 963,744 | 3,500,980 | 80,310 | 75,825 | 75,825 | 75,825 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | | | | | | |
| New Jersey----- | - | - | - | 10,171 | 437,624 | 10,171 | 10,171 | 185,512 | 185,548 | 355,060 | 888,967 | 417,970 | 1,304,907 | 1,311,455 | - | 1,961,592 | 1,361,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | 1,961,592 | | | | | | |
| New Mexico----- | - | 319,656 | 117,968 | 437,624 | 24,895 | - | 116,540 | 392,176 | 508,716 | 44,880 | 2,504 | 49,384 | 890,887 | - | 534,430 | 1,012 | 534,430 | 1,012 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | | | | |
| New York----- | 108,744 | 52,753 | 163,507 | 24,895 | - | 110,173 | 110,173 | 116,540 | 392,176 | 508,716 | 44,880 | 2,504 | 49,384 | 890,887 | - | 650,727 | 25,805 | 650,727 | 25,805 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | 1,020,980 | | | |
| North Carolina----- | 5,860 | 3,226 | 8,080 | 62,870 | 14,315 | 206,385 | 1,337 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | 1,012 | | | | | | |
| North Dakota----- | - | - | - | 12,612 | 77,876 | 12,612 | 12,612 | 530,037 | 133,482 | 199,618 | 90,318 | 30,816 | 100,896 | 1,187,527 | - | 777,428 | 3,58,014 | 777,428 | 3,58,014 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | 4,357,577 | | | |
| Ohio----- | 104,284 | 28,367 | 132,651 | 53,899 | - | 34,601 | 34,601 | 90,052 | 124,653 | 124,653 | 31,097 | 31,097 | 91,593 | 83,698 | 20,802 | 143,658 | - | 226,337 | - | 226,337 | - | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 |
| Oklahoma----- | - | - | - | 238 | 5,721 | 5,721 | 5,721 | 7,929 | 13,888 | 1,900 | 1,900 | 1,900 | 112,774 | 28,194 | - | 143,658 | - | 143,658 | - | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | | |
| Oregon----- | 15,014 | 3,152 | 18,166 | 57,632 | - | 6,403 | 9,241 | 220,919 | 42,233 | 220,919 | 26,471 | - | - | - | - | 145,701 | - | 145,701 | - | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | 1,501,632 | | |
| Pennsylvania----- | - | - | - | 4,233 | 4,233 | 4,233 | 4,233 | 18,391 | 48,080 | - | - | - | - | - | - | 167,812 | - | 167,812 | - | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | 1,62,368 | | |
| South Carolina----- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE B-20. - Injury experience and worktime data on officeworkers at nonmetal mines and mills in the United States, by mineral industry, 1971

| Mineral industry | Injuries | | | Frequency rates per million man-hours | | | Severity rates per million man-hours | | | Average men working daily | Average days active | Man-days worked | Man-hours worked |
|------------------------------|----------|----------|-------|---------------------------------------|----------|-------|--------------------------------------|----------|-------|---------------------------|---------------------|-----------------|------------------|
| | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | | | | |
| Clay----- | - | 7 | 7 | - | 2.24 | 2.24 | - | 9 | 9 | 1,519 | 257 | 390,047 | 3,118,446 |
| Gypsum----- | - | - | - | - | - | - | - | - | - | 244 | 260 | 63,543 | 506,275 |
| Phosphate rock----- | - | - | - | - | - | - | - | - | - | 251 | 256 | 64,161 | 513,343 |
| Potash----- | - | - | - | - | - | - | - | - | - | 159 | 267 | 42,490 | 339,919 |
| Salt----- | - | 1 | 1 | - | 2.03 | 2.03 | - | 36 | 36 | 243 | 257 | 62,360 | 493,277 |
| Sulfur----- | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Miscellaneous nonmetals----- | - | - | - | - | - | - | - | - | - | 945 | 252 | 237,957 | 1,898,843 |
| Total or average----- | - | 8 | 8 | - | 1.16 | 1.16 | - | 7 | 7 | 3,361 | 256 | 860,558 | 6,870,103 |

TABLE B-21. - Injury experience and worktime data on officeworkers at nonmetal mines and mills in the United States, by State, 1971

| State | Injuries | | | Frequency rates per million man-hours | | | Severity rates per million man-hours | | | Average men working daily | Average days active | Man-days worked | Man-hours worked |
|-----------------------|----------|----------|-------|---------------------------------------|----------|-------|--------------------------------------|----------|-------|---------------------------|---------------------|-----------------|------------------|
| | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | Fatal | Nonfatal | Total | | | | |
| Alabama----- | - | 1 | 1 | - | 10.53 | 10.53 | - | 105 | 105 | 47 | 261 | 12,249 | 94,988 |
| Arizona----- | - | 1 | 1 | - | 24.06 | 24.06 | - | 72 | 72 | 25 | 210 | 5,251 | 41,568 |
| Arkansas----- | - | - | - | - | - | - | - | - | - | 76 | 259 | 19,674 | 157,389 |
| California----- | - | - | - | - | - | - | - | - | - | 325 | 253 | 82,152 | 654,038 |
| Colorado----- | - | - | - | - | - | - | - | - | - | 45 | 222 | 9,993 | 77,324 |
| Connecticut----- | - | - | - | - | - | - | - | - | - | 3 | 289 | 868 | 6,940 |
| Florida----- | - | - | - | - | - | - | - | - | - | 220 | 259 | 57,061 | 456,845 |
| Georgia----- | - | 1 | 1 | - | 1.01 | 1.01 | - | 1 | 1 | 476 | 262 | 124,793 | 992,599 |
| Hawaii----- | - | - | - | - | - | - | - | - | - | 4 | 279 | 1,117 | 8,938 |
| Idaho----- | - | - | - | - | - | - | - | - | - | 30 | 235 | 7,039 | 56,315 |
| Illinois----- | - | - | - | - | - | - | - | - | - | 68 | 287 | 19,533 | 157,204 |
| Indiana----- | - | - | - | - | - | - | - | - | - | 56 | 259 | 14,479 | 115,811 |
| Iowa----- | - | 1 | 1 | - | 9.75 | 9.75 | - | 10 | 10 | 47 | 272 | 12,799 | 102,575 |
| Kansas----- | - | - | - | - | - | - | - | - | - | 41 | 267 | 10,948 | 85,173 |
| Kentucky----- | - | - | - | - | - | - | - | - | - | 33 | 257 | 8,492 | 68,436 |
| Louisiana----- | - | - | - | - | - | - | - | - | - | 119 | 254 | 30,167 | 241,340 |
| Maine----- | - | - | - | - | - | - | - | - | - | 3 | 182 | 545 | 4,648 |
| Maryland----- | - | - | - | - | - | - | - | - | - | 18 | 216 | 3,893 | 33,771 |
| Massachusetts----- | - | - | - | - | - | - | - | - | - | 5 | 298 | 1,490 | 11,920 |
| Michigan----- | - | - | - | - | - | - | - | - | - | 70 | 249 | 17,464 | 134,860 |
| Minnesota----- | - | - | - | - | - | - | - | - | - | 11 | 261 | 2,867 | 22,932 |
| Mississippi----- | - | - | - | - | - | - | - | - | - | 43 | 253 | 10,894 | 87,930 |
| Missouri----- | - | - | - | - | - | - | - | - | - | 43 | 245 | 10,525 | 83,407 |
| Montana----- | - | 1 | 1 | - | 8.75 | 8.75 | - | 35 | 35 | 53 | 270 | 14,289 | 114,255 |
| Nebraska----- | - | - | - | - | - | - | - | - | - | 4 | 288 | 1,153 | 8,974 |
| Nevada----- | - | - | - | - | - | - | - | - | - | 93 | 253 | 23,573 | 188,471 |
| New Hampshire----- | - | - | - | - | - | - | - | - | - | 1 | 276 | 276 | 2,205 |
| New Jersey----- | - | - | - | - | - | - | - | - | - | 21 | 174 | 3,661 | 26,888 |
| New Mexico----- | - | - | - | - | - | - | - | - | - | 187 | 265 | 49,611 | 395,887 |
| New York----- | - | 1 | 1 | - | 2.81 | 2.81 | - | 51 | 51 | 175 | 255 | 44,605 | 355,551 |
| North Carolina----- | - | 1 | 1 | - | 3.63 | 3.63 | - | 29 | 29 | 140 | 244 | 34,180 | 275,364 |
| North Dakota----- | - | - | - | - | - | - | - | - | - | 1 | 125 | 125 | 1,000 |
| Ohio----- | - | - | - | - | - | - | - | - | - | 161 | 261 | 41,968 | 338,176 |
| Oklahoma----- | - | - | - | - | - | - | - | - | - | 52 | 238 | 12,363 | 96,239 |
| Oregon----- | - | - | - | - | - | - | - | - | - | 4 | 204 | 817 | 6,451 |
| Pennsylvania----- | - | - | - | - | - | - | - | - | - | 87 | 250 | 21,786 | 174,166 |
| South Carolina----- | - | - | - | - | - | - | - | - | - | 72 | 261 | 18,757 | 152,508 |
| South Dakota----- | - | - | - | - | - | - | - | - | - | 7 | 300 | 2,100 | 16,800 |
| Tennessee----- | - | - | - | - | - | - | - | - | - | 47 | 254 | 11,931 | 97,133 |
| Texas----- | - | 1 | 1 | - | 3.09 | 3.09 | - | 3 | 3 | 157 | 257 | 40,350 | 323,921 |
| Utah----- | - | - | - | - | - | - | - | - | - | 36 | 239 | 8,615 | 68,720 |
| Vermont----- | - | - | - | - | - | - | - | - | - | 20 | 257 | 5,147 | 41,277 |
| Virginia----- | - | - | - | - | - | - | - | - | - | 63 | 259 | 16,342 | 130,783 |
| Washington----- | - | - | - | - | - | - | - | - | - | 3 | 173 | 519 | 4,048 |
| West Virginia----- | - | - | - | - | - | - | - | - | - | 9 | 243 | 2,188 | 17,504 |
| Wisconsin----- | - | - | - | - | - | - | - | - | - | 2 | 252 | 505 | 4,060 |
| Wyoming----- | - | - | - | - | - | - | - | - | - | 158 | 262 | 41,404 | 332,791 |
| Total or average----- | - | 8 | 8 | - | 1.16 | 1.16 | - | 7 | 7 | 3,361 | 256 | 860,558 | 6,870,103 |

Form 6-1430-A
(October 1968)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINESBudget Bureau No. 42-R1548.
Approval expires August 1971.INJURIES AND EMPLOYMENT
IN NONMETALLIC MINERAL MINES AND MILLS

(Please correct if name or address has changed.)

Section 13 of the Federal Metal and Nonmetallic Mine Safety Act (30 U.S.C. 721-740) requires the full and accurate reporting of the information requested on this form concerning accidents, injuries, and occupational diseases, and related data at your mineral extractive and milling or processing operation.

I. EMPLOYMENT AND INJURIES

1. EMPLOYMENT.—Report data for all men engaged in production, exploration, development, overburden removal, stockpile, construction, maintenance, and repair work—including supervisory and technical personnel at the operation. Include proprietors and firm members (owners, partners, or operators) performing manual labor or supervisory duties. Report separate data on all officeworkers at the operation.

| DEPARTMENT | (a) Average Num- ber of Men Working on Active Days | (b) Days Active During Year | (c) Total Man-Shifts Worked During Year | (d) Length of Shift (Hours) | (e) Total Man-Hours Worked During Year | (f) Summary of Work Injuries | | (g) Production* (short tons) |
|--|--|---|---|--------------------------------------|--|------------------------------------|----------|------------------------------------|
| | | | | | | Fatal | Nonfatal | |
| AT UNDERGROUND MINE | | | | | | | | |
| (01) Underground | | | | | | | | |
| (02) Surface shops, yards, etc., at underground mines only | | | | | | | | |
| AT OPEN-PIT MINE | | | | | | | | |
| (03) Open pit (including associated shops and yards) | | | | | | | | |
| OTHER SURFACE MINING | | | | | | | | |
| (07) Hydraulicking | | | | | | | | |
| (08) Well, pond, pumping station, etc. | | | | | | | | |
| AT MILL | | | | | | | | |
| (30) Processing plants (include crushing, grinding, screening, flotation, other processing and associated shops and yards) | | | | | | | | |
| AT OFFICE | | | | | | | | |
| (00) Officeworkers (at mine and or mill) | | | | | | | | |

*Include production of nonmetallic (industrial) mineral extracted from mine, pit, well or other recovery operation.

Convert all units of measure to short tons or specify units reported:

2. How many mines _____ (number) and mills _____ (number) are included in the employment data? Give name(s) and location(s):

| MINE NAME | COUNTY | STATE | MILL NAME | COUNTY | STATE |
|-----------|--------|-------|-----------|--------|-------|
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

3. INJURIES. If you had NO DISABLING WORK INJURIES** during the year, check block ; otherwise, please complete column f, Summary of Work Injuries, above; also list them on the reverse side of this page.

**A DISABLING WORK INJURY is one which occurs in the course of and arises out of employment, irrespective of whether the injury is compensable and whether or not your establishment was operating on the days following the date of injury. The term "injury" includes occupational diseases. A disabling work injury is one which results in death or permanent impairment or which temporarily disables the worker for 1 full day or more after the day of injury (USAS Z16.1).

II. GENERAL

1. If any new or reopened mines or mills were operated in your vicinity during the past year, give names and addresses of owners or operators _____

2. Have you subcontracted any of your operations during the reporting year? Yes No

(a) If yes, is subcontractor's data included in this report? Yes No (b) If you subcontracted any of your operations, please furnish the following information:

Name and business address of the subcontractors _____

(c) Effective date of subcontract(s) _____ (d) Name and exact location of the operations subcontracted _____

| | | |
|-----------|-------|------|
| Signature | Title | Date |
|-----------|-------|------|

(OVER)

INJURY DATA

List below every disabling work injury (see definition on front side of form) which occurred during the year to all classes of your employees included in the employment data.
Write in a description of the accident and then fill in blocks above the description that are applicable to the accident.

| CASE NO. | DEPARTMENT (List department in which accident occurred) | SOURCE OF INJURY (Object, substance, exposure, or bodily motion which directly produced or inflicted the injury, such as timber, chemicals, welder's flash, or lifting, respectively) | EXTENT OF DISABILITY (Please indicate the extent of disability by an entry in one of the columns below) | | | | PART OF BODY INJURED (Be specific, such as great toe, left toe, left foot, index finger, right hand, etc.) | NATURE OF INJURY (Amputation, bruise, strain, dermatitis, etc.) | |
|--|--|--|--|-----------------------------|---|---|---|--|--|
| | | | Death (Enter a check-mark) | Permanent total disability* | Permanent-partial disability (Please indicate percent loss and part of body affected) * | Temporary-total disability (Enter time lost in calendar days) | | | |
| Example | Crusher | Rock | | | 22 | Left Shoulder | Broken bone | | |
| Describe the accident: Employee was barring down in hopper to free hung feed to crusher. Hang up moved suddenly and a large rock glanced off the bar and hit employee on left shoulder fracturing collar bone. | | | | | | | | | |
| 1. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 2. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 3. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 4. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 5. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 6. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 7. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |
| 8. | | | | | | | | | |
| Describe the accident: | | | | | | | | | |

* If more convenient, enter the time charge for each injury as established by the American Standards Association, in accordance with instructions from USAS Z16.1.

Form 6-1430-A
(October 1971)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINESBudget Bureau No. 42-R1548.
Approval expires August 1972.INJURIES AND EMPLOYMENT
IN NONMETALLIC MINERAL MINES AND MILLS

(Please correct if name or address has changed.)

Section 13 of the Federal Metal and Nonmetallic Mine Safety Act (30 U.S.C. 721-740) requires the full and accurate reporting of the information requested on this form concerning accidents, injuries, and occupational diseases, and related data at your mineral extractive and milling or processing operation.

I. EMPLOYMENT AND INJURIES

1. EMPLOYMENT.—Report data for all men engaged in production, exploration, development, overburden removal, stockpile, construction, maintenance, and repair work—including supervisory and technical personnel at the operation. Include proprietors and firm members (owners, partners, or operators) performing manual labor or supervisory duties. Report separate data on all officeworkers at the operation.

| DEPARTMENT | (a) Average Num- ber of Men Working on Active Days | (b) Days Active During Year | (c) Total Man-Shifts Worked During Year | (d) Length of Shift (Hours) | (e) Total Man Hours Worked During Year | (f) Summary of Work Injuries | | (g) Production* (short tons) |
|--|--|---|---|--------------------------------------|--|------------------------------------|----------|------------------------------------|
| | | | | | | Fatal | Nonfatal | |
| AT UNDERGROUND MINE | | | | | | | | |
| (01) Underground | | | | | | | | |
| (02) Surface shops, yards, etc., at underground mines only | | | | | | | | |
| AT OPEN-PIT MINE | | | | | | | | |
| (03) Open-pit (including associated shops and yards) | | | | | | | | |
| OTHER SURFACE MINING | | | | | | | | |
| (07) Hydraulicking | | | | | | | | |
| (08) Well, pond, pumping station, etc. | | | | | | | | |
| AT MILL | | | | | | | | |
| (30) Processing plants (include crushing, grinding, screening, flotation, other processing and associated shops and yards) | | | | | | | | |
| AT OFFICE | | | | | | | | |
| (00) Officeworkers (at mine and or mill) | | | | | | | | |

*Include production of nonmetallic (industrial) mineral extracted from mine, pit, well or other recovery operation.
Convert all units of measure to short tons or specify units reported:

2. How many mines _____ (number) and mills _____ (number) are included in the employment data? Give name(s) and location(s):

| MINE NAME | COUNTY | STATE | MILL NAME | COUNTY | STATE |
|-----------|--------|-------|-----------|--------|-------|
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

3. INJURIES. If you had NO DISABLING WORK INJURIES** during the year, check block ; otherwise, please complete column f, Summary of Work Injuries, above; also list them on the reverse side of this page.

**A DISABLING WORK INJURY is one which occurs in the course of and arises out of employment, irrespective of whether the injury is compensable and whether or not your establishment was operating on the days following the date of injury. The term "injury" includes occupational diseases. A disabling work injury is one which results in death or permanent impairment or which temporarily disables the worker for 1 full day or more after the day of injury (USAS-Z16.1).

II. GENERAL

1. If any new or reopened mines or mills were operated in your vicinity during the past year, give names and addresses of owners or operators _____

2. Have you subcontracted any of your operations during the reporting year? Yes No

(a) If yes, is subcontractor's data included in this report? Yes No (b) If you subcontracted any of your operations, please furnish the following information:

Name and business address of the subcontractor(s) _____

(c) Effective date of subcontract(s) _____ (d) Name and exact location of the operations subcontracted _____

| | | |
|-----------|-------|------|
| Signature | Title | Date |
|-----------|-------|------|

(OVER)

INJURY DATA

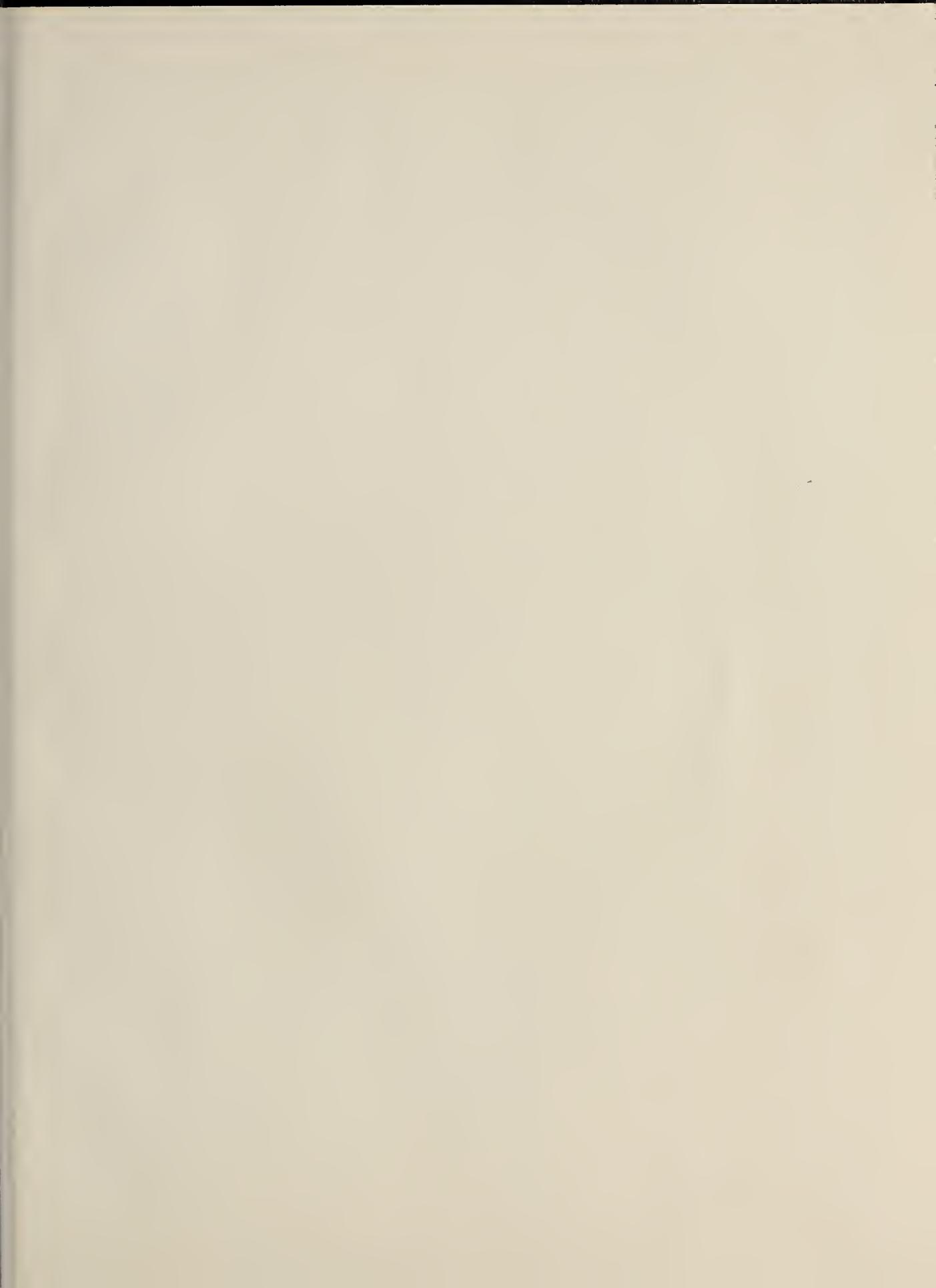
List below every disabling work injury (see definition on front side of form) which occurred during the year to all classes of your employees included in the employment data. Write in a description of the accident and then fill in blocks above the description that are applicable to the accident.

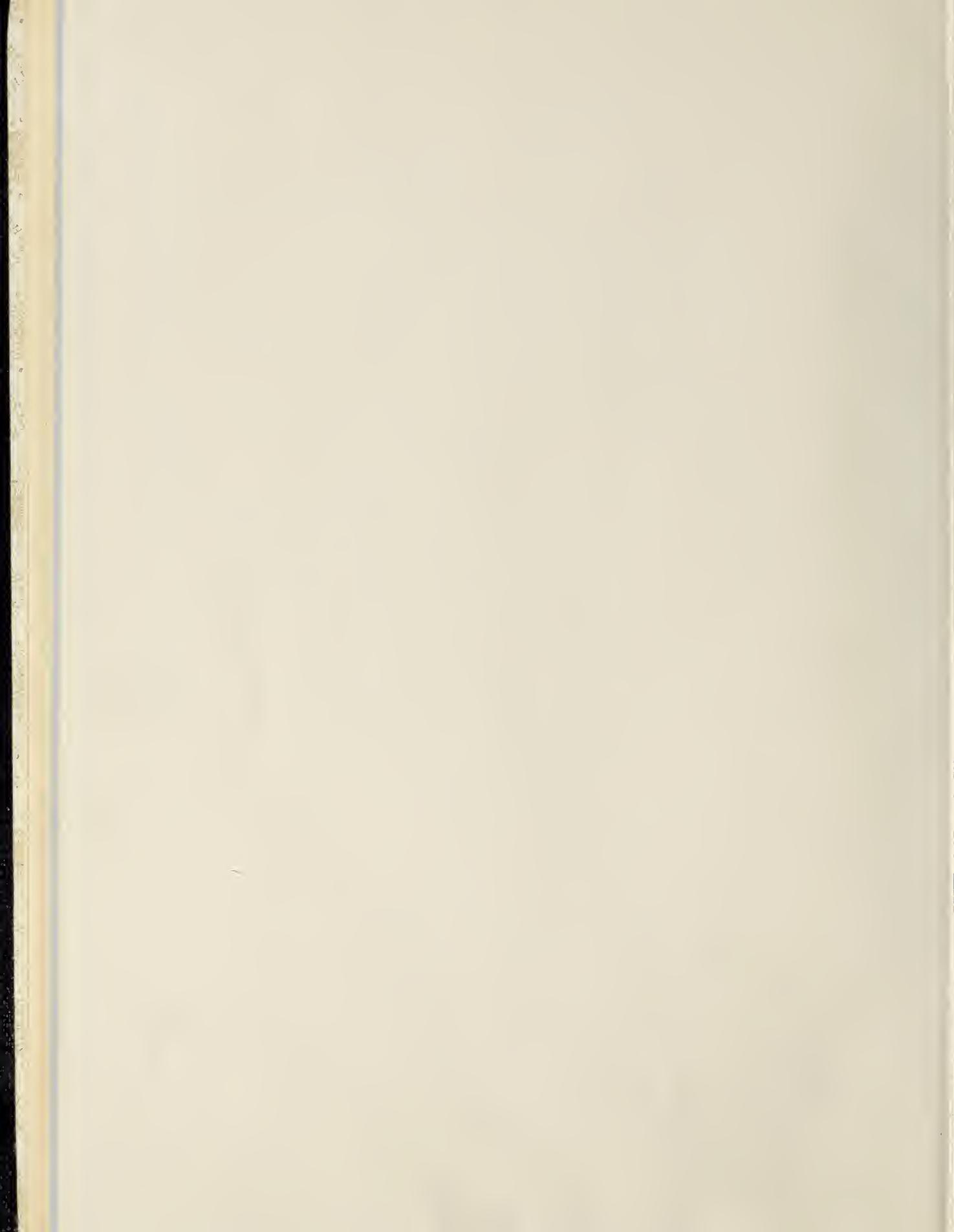
| CASE NO. | DEPARTMENT (List department in which accident occurred) | SOURCE OF INJURY (Object, substance, exposure, or bodily motion which directly produced or inflicted the injury, such as timber; chemicals worker's hash, or lifting, respectively) | EXTENT OF DISABILITY (Please indicate the extent of disability by an entry in one of the columns below) | | PART OF BODY INJURED (Be specific, such as great toe, left foot, index finger, right hand, etc.) | NATURE OF INJURY (Amputation, bruise, strain, dermatitis, etc.) |
|---|--|--|--|------------------------------|---|--|
| | | | Death (Enter a check-mark) | Permanent-total disability * | | |
| Example | Crusher | Rock | | 22 | Left Shoulder | Broken bone |
| Describe the accident : Employee was barring down in hopper to free hung feed to crusher. Hang up moved suddenly and a large rock glanced off the bar and hit employee on left shoulder fracturing collar bone. | | | | | | |
| 1. | | | | | | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |
| Describe the accident: | | | | | | |

* If more convenient, enter the time charge for each injury as established by the American Standards Association, in accordance with instructions from USAS 216.1.

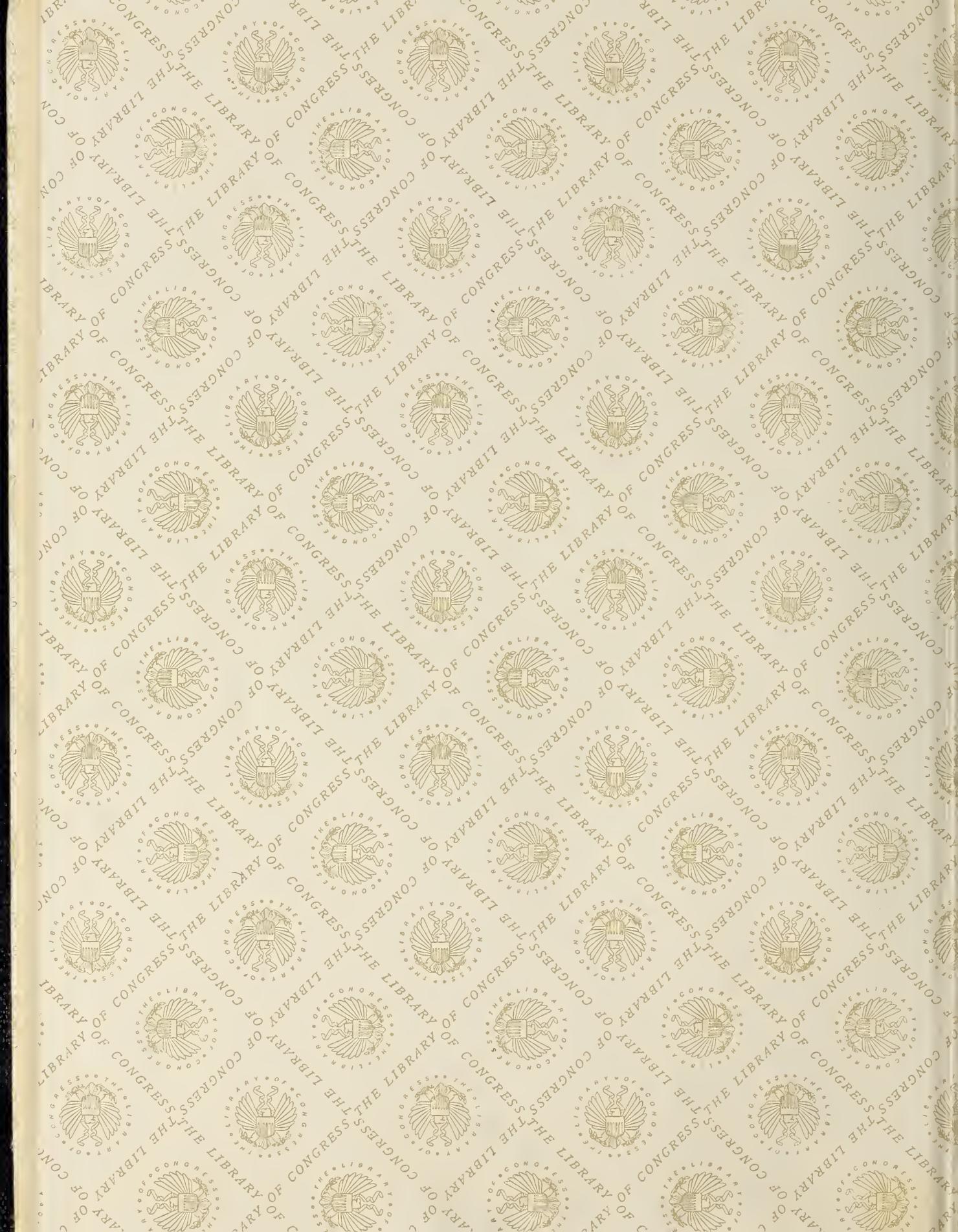














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